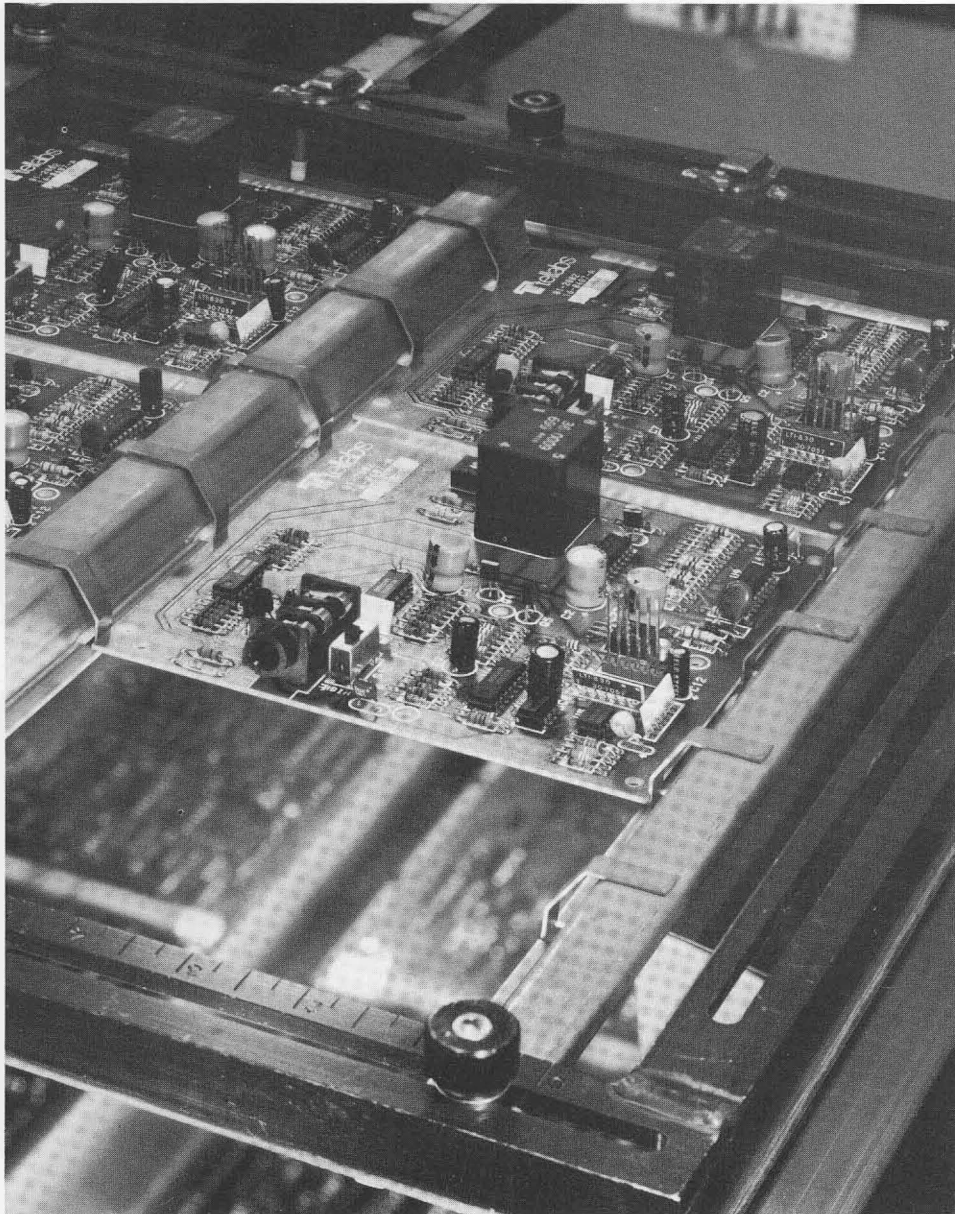


PRICE LIST

EFFECTIVE JANUARY 1, 1987



 tellabs

NOTE:

This price list supersedes all previous Tellabs price lists. Prices are subject to change without notice.

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Using This Price List

For easy use, the price list is divided into two basic parts:

- **Sections 1 through 9:** A numerical listing of all products.
- **Section 10:** A listing of special services products by functional description.

As indicated in the contents, sections 1 through 9 list products numerically under nine different categories. The majority of this price list covers special services products. To more readily obtain pricing information for the wide range of product types within the special services category, use the alphabetical index located at the beginning of section 10.

For additional ordering information, please contact Tellabs Technical Marketing Services at the Tellabs regional office nearest you, or contact our Sales Administration department at Tellabs headquarters. Addresses and telephone numbers for all Tellabs offices are listed on the back cover.

Proposals and Technical Assistance

Quotations for prices on both standard and nonstandard modules and packages may be obtained by contacting your Tellabs regional office. In addition, call your Tellabs regional office for technical assistance in planning special application packages and prewired assemblies and bays, as well as in troubleshooting.

One-Line Order Entry and List Codes

One-line order entry codes (e.g., SA) are available for some of our systems. These codes allow you to order complete systems, module complements, or modules with subassemblies simply by using the appropriate code instead of by listing each product separately. Contact Tellabs Technical Marketing Services at your Tellabs regional office for details.

List codes, on the other hand, consist of a product number for some of our mounting assemblies and apparatus cases, plus the "list" suffix L1, L2, L3, or L4 (e.g., 1912L1). "L" code product numbers do not include the associated assembly or apparatus case; these must be ordered separately.

Wiring Charges

Wiring charges for prewired shelves and apparatus cases range from \$5.00 to \$20.00 per module position, depending upon the number of pins on the module. The wiring charge includes engineering, documentation, wiring, and testing of the assembly. Cables, prewired jackfields, and relay racks can also be provided. Contact your Tellabs regional office for pricing and delivery information.

Mountings

NOTE: Certain system-related prewired apparatus cases and mounting assemblies are not listed in section 1. Instead, these cases and assemblies are listed under their associated Tellabs system numbers in section 2 of this price list.

Mounting Shelves

Type 10, KTU apparatus-case mounting

1002	Type 10 Mounting Shelf, 2-position, KTU app. case mounting	31.00
1004	Type 10 Mounting Shelf, 4-position, KTU app. case mounting	45.00
1006	Type 10 Mounting Shelf, 6-position, KTU app. case mounting	60.00
1009	Type 10 Mounting Shelf, 9-position, KTU app. case mounting	84.00

Type 10, rack mounting

1009A	1009 Mounting Shelf, 9-position, wired for eight 4412X DST modules; includes power and fusing, 19-inch or 23-inch relay-rack mounting	408.00
1011	Type 10 Mounting Shelf, 19-inch, 11-position, 6" high	100.00
1011F*	Type 10 Mounting Shelf, flush mount, 19-inch, 11-position, 6" high	123.00
→ 1011U	Type 10 Universal Mounting Shelf, 19-inch, 11-position, 6" high	168.00
1011UC	Type 10 Universal Connectorized Mounting Shelf, 19-inch, 11-position, 3 connectors, 6" high	209.00
1012	Type 10 Mounting Shelf, 19-inch, 12-position, 6" high	100.00
1012F*	Type 10 Mounting Shelf, flush mount, 19-inch, 12-position, 6" high	132.00
1012U	Type 10 Universal Mounting Shelf, 19-inch, 12-position, 6" high	179.00
1012UC	Type 10 Universal Connectorized Mounting Shelf, 19-inch, 12-position, 3 connectors, 6" high	219.00
1013	Type 10 Mounting Shelf, 23-inch, 13-position, 6" high	120.00
1013U	Type 10 Universal Mounting Shelf, 23-inch, 13-position, 6" high	179.00
1013UC	Type 10 Universal Connectorized Mounting Shelf, 23-inch, 13-position, 3 connectors, 6" high	219.00
1014	Type 10 Mounting Shelf, 23-inch, 14-position, 6" high	120.00
1014U	Type 10 Universal Mounting Shelf, 23-inch, 14-position, 6" high	189.00
1014UC	Type 10 Universal Connectorized Mounting Shelf, 23-inch, 14-position, 3 connectors, 6" high	230.00
1053	Type 10 Mounting Shelf, 19-inch, 3-position, 1-3/4" high	122.00

Type 12, rack mounting

1212-19	Type 12 Mounting Shelf, 19-inch, 12-position, 3-1/2" high	79.00
1212-23	Type 12 Mounting Shelf, 23-inch, 12-position, 3-1/2" high	87.00

Type 15, rack mounting

1512-19*	Type 15 Mounting Shelf, 19-inch, 12-position, 5-1/4" high	98.00
1512-23*	Type 15 Mounting Shelf, 23-inch, 12-position, 5-1/4" high	103.00

Type 16, rack mounting

1612-19	Type 16 Mounting Shelf, 19-inch, 12-position, 7" high	92.00
1612-23	Type 16 Mounting Shelf, 23-inch, 12-position, 7" high	101.00
1612A-19	Type 16 Mounting Shelf, 19-inch, 12-position, SMAS-strapped for 6900-family modules, 7" high	122.00
1612A-23	Type 16 Mounting Shelf, 23-inch, 12-position, SMAS-strapped for 6900-family modules, 7" high	123.00
1612B-19	Type 16 Mounting Shelf, 19-inch, 12-position, SMAS-strapped for 6900-family modules with common bus for batt., gnd., ring gen., SF osc., and CGA, 7" high	137.00

* Not a standard stock item. May require extended delivery interval.

1612B-23	Type 16 Mounting Shelf, 23-inch, 12-position, SMAS-strapped for 6900-family modules with common bus for batt., grd., ring gen., SF osc., and CGA, 7" high	137.00
1624-19	Double-Density Type 16 Mounting Shelf, 19-inch, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	132.00
1624-23	Double-Density Type 16 Mounting Shelf, 23-inch, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	135.00
1624C-19	Two Type 16 Mounting Shelves with common connectorized backplate, wired for Type I E&M interface, 19-inch, 14" high	498.00
1624C-23	Two Type 16 Mounting Shelves with common connectorized backplate, wired for Type I E&M interface, 23-inch, 14" high	500.00
1624D-19	Two Type 16 Mounting Shelves with common connectorized backplate, wired for Type II E&M interface, 19-inch, 14" high	498.00
1624D-23	Two Type 16 Mounting Shelves with common connectorized backplate, wired for Type II E&M interface, 23-inch, 14" high	500.00
1624F-19	Double-Density Type 16 Mounting Shelf, 19-inch, with connectorized backplane, wired for Type I and Type II E&M interface, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	250.00
1624F-23	Double-Density Type 16 Mounting Shelf, 23-inch, with connectorized backplane, wired for Type I and Type II E&M interface, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	250.00
1624G-19	Double-Density Type 16 Mounting Shelf, 19-inch, wired for Echo Cancellers, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	260.00
1624G-23	Double-Density Type 16 Mounting Shelf, 23-inch, wired for Tellabs 6921X Echo Cancellers, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	260.00

optional equipment for mounting shelves

14-9002	KTU Mounting Bars, 19-inch pair	22.00
14-9003	KTU Mounting Bars, 23-inch pair	25.00
14-9007	Rack Adapter (one pair), 19" to 23", occupies one mounting space	11.00
80-0358	Rack Adapter (one pair), converts Type 12 Mounting Shelves from 19" to 23" mount, occupies two mounting spaces	9.00
80-0359	Rack Adapter (one pair), converts Type 15 Mounting Shelves from 19" to 23" mount, occupies three mounting spaces	13.00
80-0360	Rack Adapter (one pair), converts Type 16 Mounting Shelves from 19" to 23" mount, occupies four mounting spaces	15.00
80-0357	Rack Adapter (one pair), converts Type 10 Mounting Shelves from 19" to 23" mount, occupies 3.5 mounting spaces	14.00

Apparatus Cases, Data Station Termination Mounting Assemblies, and Associated Transformers

NOTE: The following apparatus cases accommodate Tellabs Type 10 modules.

1911	Apparatus Case, single-module, wall or desktop mount	19.00
1912	Apparatus Case, single-module, wall or desktop mount, with rectifier and voltage doubler	43.00
1912A	1912 Apparatus Case wired for one 4445 or 4449 Data Bridge module	61.00
1912 L1	Terminal Block, 6-position	4.00
1912 L2	Gas Tubes, two each	9.00
1912 L4	Transformer, 117Vac input, 26Vac 7.5VA output (same as model 8015)	9.00
1913	Apparatus Case, two-module, with rectifier and voltage doubler, wall or desktop mount	65.00
1913 L4	Transformer, 117Vac input, 26Vac 7.5VA output (same as model 8015)	9.00
1913NR	Apparatus Case, two-module, wall or desktop mount	45.00
1914	Apparatus Case, four-module, wall or desktop mount	128.00
1914P	Apparatus Case, four-module, with rectifier and power supply (same as model 8016), wall or desktop mount	154.00
1914PR	Apparatus Case, four-module, with rectifier, power supply (same as model 8016), and ringing, wall or desktop mount	178.00
1918	Type 14A-equivalent Apparatus Case, plastic, with integral 6-position shelf and translucent cover, wall mounted, includes two 12-pair Type 66 blocks	120.00
1919	Type 15A-equivalent Apparatus Case, plastic, with two integral 6-position shelves and translucent cover, wall mounted, includes one 50-pair Type 66 block	180.00
1921	Type 15A-equivalent Apparatus Case, wall mounted (includes one 50-pair Type 66 block)	65.00
1922	Type 16C-equivalent Apparatus Case, wall mounted, with translucent cover (Issue 2)	154.00
1925	Type 6A-equivalent Apparatus Case, floor mounted, with translucent cover, 23-inch internal mounting	432.00

NOTE: For 19-inch internal mounting in the 1925 Apparatus Case, use the 10-1211 extender bracket.

1926	Type 6AW Apparatus Case, floor mounted, with translucent cover, 23-inch internal mounting	569.00
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NOTE: For 19-inch internal mounting in the 1926 Apparatus Case, use the 10-1212 extender bracket.

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optional equipment for apparatus cases

10-1211	Extender bracket for 1925 (6A) Apparatus Case, adapts case for 19" internal mounting shelves	23.00
10-1212	Extender bracket for 1926 (6AW) Apparatus Case, adapts case for 19" internal mounting shelves	23.00
60-0035	Type 66 Quick-Connect Terminal Block, 25-pair (includes wiring)	22.00
60-0338	Type 66 Quick-Connect Terminal Block, split, 50-pair (includes wiring)	22.00

Analog and Digital Systems

NOTE: Following each system is a listing of associated modules. These module listings are not intended to be all-inclusive for all applications. Technical assistance in selecting modules can be obtained from the engineer at your Tellabs regional office or from the Applications Engineering Department at Tellabs headquarters.

2

211 OPX Range Extender System

(Registered per FCC Registration No. BPZ826-1131-OT-N)

mounting assemblies

wall mounting

211C*	1921 Apparatus Case wired for four 7011 modules; also includes power supply and ringing generator (modules not included)	347.00
211D*	1921 Apparatus Case wired for eight 7011 modules; also includes power supply and ringing generator (modules not included)	418.00
211E*	1922 Apparatus Case wired for fourteen 7011 modules; also includes power supply and ringing generator (modules not included)	591.00

associated modules, Type 10

7011A	OPX Range Extender with reverse battery	103.00
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NOTE: The 211 Assembly's wiring scheme can also accommodate the 7001, 7002, and 7201 modules on an interchangeable basis.

242 2Wire Distributive Data Bridge (DDB) System

mounting assemblies, relay-rack or apparatus-case (16C/6A/6AW) mounting

24XA	Mounting Assembly, 19-inch, 12-position, with pcb backplane and five 25-pair connectors	268.00
24XB	Mounting Assembly, 23-inch, 14-position, with pcb backplane and five 25-pair connectors	278.00

associated modules (Type 10) and subassemblies

4050*	Cable Diagnostic Module for 24X Mounting Assembly	95.00
4251	2Wire DDB Combiner Amplifier with xmt. slope pre-eql. and 310-type jks. (may require 9952X filter subassembly)	98.00
4251A	2Wire DDB Presc. Combiner Amplifier with bantam jks. and seal. curr., accepts plug-on xmt. pre-eql. (may require 9952X Filter subassembly)	103.00
4252	2Wire DDB Splitter Amplifier with rcv. slope/bump eql. and 310-type jks. (may require 9952X Filter subassembly)	98.00
4252A	2Wire DDB Presc. Splitter Amplifier with rcv. 309B-equiv. eql., bantam jks., and seal. curr. (may require 9952X Filter subassembly)	103.00
4255	2Wire DDB Presc. Quad Termination Module with bantam jks. (Issue 2)	150.00
4255S	2Wire DDB Presc. Quad Termination Module with bantam jks. and seal. curr. (Issue 2)	188.00
9952A	Low-Pass Band-Splitting Filter subassembly (400Hz LPF, for 4251/51A or 4252/52A)	26.00
9952B	Low-Pass Band-Splitting Filter subassembly (1300Hz LPF, for 4251/51A or 4252/52A)	26.00
9952C	Low-Pass Band-Splitting Filter subassembly (1370Hz LPF, for 4251/51A or 4252/52A)	26.00
9952D	High-Pass Band-Splitting Filter subassembly (1650Hz HPF, for 4251/51A or 4252/52A)	26.00
9952E	High-Pass Band-Splitting Filter subassembly (1925Hz HPF, for 4251/51A or 4252/52A)	26.00
9952G	High-Pass Band-Splitting Filter subassembly (1300Hz HPF, for 4251/51A or 4252/52A)	26.00
9952H	High-Pass Band-Splitting Filter subassembly (1810Hz HPF, for 4251/51A or 4252/52A)	26.00
9952J	Low-Pass Band-Splitting Filter subassembly (1460Hz LPF, for 4251/51A or 4252/52A)	26.00

* Not a standard stock item. May require extended delivery interval.

243 Low-Speed Data Signaling System (McCulloh-type alarm interface)**mounting assemblies, relay-rack or apparatus-case (16C/6A/6AW) mounting**

24XA	Mounting Assembly, 19-inch, 12-position, with pcb backplane and five 25-pair connectors	268.00
24XB	Mounting Assembly, 23-inch, 14-position, with pcb backplane and five 25-pair connectors	278.00

associated modules, Type 10

3228	Data Set Transmit/Receive Module (recommended for carrier interface applications)	218.00
4050*	Cable Diagnostic Module for 24X Assembly	95.00
4311	Data Conversion Module	235.00
4312	Loop Interface Module	65.00
4312A	Loop Interface Remote Control Module	74.00
4313	Alarm Station Interface Module	156.00
4322	Loop Monitor/Interface Module	102.00

244 4Wire Distributive Data Bridge (DDB) System**mounting assemblies, relay-rack or apparatus-case (16C/6A/6AW) mounting**

24XA	Mounting Assembly, 19-inch, 12-position, with pcb backplane and five 25-pair connectors	268.00
24XB	Mounting Assembly, 23-inch, 14-position, with pcb backplane and five 25-pair connectors	278.00
24XA L1	24XA Mounting Assembly with 50-4006 diagnostic cable	282.00
24XB L1	24XB Mounting Assembly with 50-4006 diagnostic cable	292.00

NOTE: The 50-4006 diagnostic cable is required when a 4457, 4458, or 4459 test module is used in the 24XA or 24XB Assembly.

associated modules (Type 10) and equipment

4050*	Cable Diagnostic Module for 24X Mounting Assembly	95.00
4451	4Wire DDB module (combiner and splitter amp) with rcv. slope/bump eql., xmt. slope pre-eql., 310-type jks., and seal. curr.	148.00
4451A	4Wire DDB module (combiner and splitter amp) with rcv. slope/bump eql., xmt. slope pre-eql., 310-type jks., seal. curr., and test-access transfer relay on brdg. side	158.00
4452A	4Wire DDB module (combiner and splitter amp), presc., with rcv. and xmt. slope eql., bantam jks., seal. curr., and test-access transfer relay on brdg. side	202.00
4452B	4Wire DDB module (combiner and splitter amp), presc., with rcv. 309B-equiv. eql., bantam jks., seal. curr., and test-access transfer relay on brdg. side, accepts plug-on xmt. pre-eql.	202.00
4453	4Wire DDB Termination module, passive, with 23dB or 0.5dB fixed loss and bantam jks., for carrier interface	43.00
4454	4Wire DDB Termination module, passive, with presc. loss, bantam jks., and seal. curr.	88.00
4454A	4Wire DDB Termination module, passive, presc. loss, with bantam jks., seal. curr., and test-access transfer relay on brdg. side	98.00
4455	4Wire DDB Termination module, passive, presc. loss, with rcv. slope/bump eql., bantam jks., and seal. curr.	97.00
4455A	4Wire DDB Termination module, passive, presc. loss, with rcv. slope/bump eql., bantam jks., seal. curr., and test-access transfer relay on brdg. side	108.00
4459*	DDB Loopback/Facility Test Module	253.00
50-4006	Diagnostic Test Cable Assembly for 24XA or 24XB Assembly when 4459 module is used	14.00

244 4Wire Terminate-and-Leave Distributive Data Bridge (DDB) System**mounting assemblies, relay-rack or apparatus-case (16C/6A/6AW) mounting**

24XA	Mounting Assembly, 19-inch, 12-position, with pcb backplane and five 25-pair connectors	268.00
24XB	Mounting Assembly, 23-inch, 14-position, with pcb backplane and five 25-pair connectors	278.00
24XA L1	24XA Mounting Assembly with 50-4006 diagnostic cable	282.00
24XB L1	24XB Mounting Assembly with 50-4006 diagnostic cable	292.00

NOTE:The 50-4006 diagnostic cable is required when the 4457 or 4458 test module is used in the 24XA or 24XB Assembly.

associated modules (Type 10) and equipment

4451A	4Wire DDB module (combiner and splitter amp) with rcv. slope/bump eql., xmt. slope pre-eql., 310-type jks., seal. curr., and test-access transfer relay on brdg. side	158.00
4452A	4Wire DDB module (combiner and splitter amp), presc., with rcv. and xmt. slope eql., bantam jks., seal. curr., and test-access transfer relay on brdg. side	202.00
4452B	4Wire DDB module, presc., with rcv. 309-B equiv. eql., bantam jks., seal. curr., and test-access relay on brdg. side, accepts plug-on xmt. pre-eql.	202.00
4454B	4Wire DDB Termination module, passive, presc. loss, with bantam jks., seal. curr., and test-access transfer relay on fac. side	99.00
4456A	4Wire DDB Termination module, active, presc., with rcv. slope post-eql., bantam jks., seal. curr., and test-access transfer relay on fac. side, accepts plug-on xmt. pre-eql.	202.00
4456B	4Wire DDB Termination module, active, presc., with rcv. 309B-equiv. post-eql., bantam jks., seal. curr., and test-access transfer relay on fac. side, accepts plug-on xmt. pre-eql.	202.00
4456C	4Wire DDB Termination module, active, presc., with rcv. 309B-equiv. post-eql., bantam jks., seal. curr., and test-access transfer relay on fac. side, accepts plug-on xmt. pre-eql.	202.00
4456D	4Wire DDB Termination module, active, presc., with rcv. 309B-equiv. post-eql., bantam jks., seal. curr., and test-access transfer relay on brdg. side, accepts plug-on xmt. pre-eql.	202.00
4458	DDB DTMF Diagnostic Module	265.00
50-4006	Diagnostic Test Cable Assembly for 24XA or 24XB Assembly when 4457 (or 4458) module is used	14.00

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248 Program Transmission System

mounting assemblies

desk or wall mounting

248A	1912 Apparatus Case wired for one 4008 module (module not included)	49.00
248B	1913 Apparatus Case wired for two 4008 modules (modules not included)	106.00

relay-rack or apparatus-case mounting

248C	Mounting Assembly, 19-inch, wired for eight 4008 modules; also includes one 9021 module and two 9026 modules	363.00
248D	Mounting Assembly, 23-inch, wired for ten 4008 modules; also includes one 9021 module and three 9026 modules	447.00
248E	Mounting Assembly, 19-inch, wired for eleven 4008 modules; also includes one 9021 module	252.00
248F	Mounting Assembly, 23-inch, wired for twelve 4008 modules; also includes one 9021 module	267.00
248G	Mounting Assembly, 23-inch, wired for ten 4008 modules; also includes one 9021 module and three 9026 modules	447.00

wall mounting

248RF	Mounting Assembly, two-module, RF shielded, wall mounting	368.00
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associated module, Type 10

4008	Program Amplifier with 5/8kHz and 15kHz eql. and 310-type jks.	202.00
4425	Dual Wideband Repeat Coil	85.00

252 Digital Echo Canceller System

systems

252A	30 or 31-Channel Digital Echo Canceller System; 19-inch/48.3cm rack mounting; expandable to dual system: With Tone Disabler option	7,105.00
	Without Tone Disabler option	6,505.00
252AE	30 or 31-Channel Digital Echo Canceller System; enhanced version for 60ms end-path delay; 19-inch/48.3cm rack mounting; expandable to dual system: With Tone Disabler option	7,895.00
	Without Tone Disabler option	7,295.00
252B	Dual 60 or 62-Channel Digital Echo Canceller System; 19-inch/48.3cm rack mounting: With Tone Disabler option	13,530.00
	Without Tone Disabler option	12,330.00

252BE	Dual 60 or 62-Channel Digital Echo Canceller System; enhanced version for 60ms end-path delay; 19-inch/48.3cm rack mounting: With Tone Disabler option	15,110.00
	Without Tone Disabler option	13,910.00
252C	30 or 31-Channel Digital Echo Canceller System; Ericsson BYB101-type magazine mounting: With Tone Disabler option	6,895.00
	Without Tone Disabler option	6,295.00
252CE	30 or 31-Channel Digital Echo Canceller System; enhanced version for 60ms end-path delay; Ericsson BYB101-type magazine mounting: With Tone Disabler option	7,685.00
	Without Tone Disabler option	7,085.00
For further information, contact Tellabs' International Sales Office at (312) 969-8800.		

253 24-Channel T1 Echo Canceller

mounting assemblies

253A	Mounting Assembly, 19-inch, 8-position, wired for eight 253 Systems	300.00
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associated modules

2530	Blank Module for 253 System	20.00
2531	24-Channel T1 Echo Canceller	2,550.00
2531A	24-Channel T1 Echo Canceller with extended delay	3,050.00

6919X Analog Echo Cancellers

6919A	Analog Echo Canceller module (Type 16)	279.00
6919B	Analog Echo Canceller module with Pads (Type 16)	340.00
6919C	Analog Echo Canceller module with Pads and SF Bypass (Type 16)	425.00
6919H	Analog Long-End-Path Echo Canceller module with Pads (Type 16)	365.00
6900A	Blank Module (Type 16)	25.00

262 Network Channel Terminating Equipment/Data Station Termination (NCTE/DST) System

mounting assemblies

wall or desk mounting

262PO-1	1-Circuit NCTE/DST Mounting Assembly with -48Vdc, 100mA power	54.00
262PR-1	1-Circuit NCTE/DST Mounting Assembly with -48Vdc, 100mA power, supplied with wall plug-in ringing generator (Tellabs 8111)	141.00
262PO-6	6-Circuit NCTE/DST Mounting Assembly with -48Vdc, 1.25A power	261.00
262PR-6	6-Circuit NCTE/DST Mounting Assembly with -48Vdc, 1.25A power, equipped with ringing generator	381.00
262PO-12	12-Circuit NCTE/DST Mounting Assembly with -48Vdc, 1.25A power	387.00
262PO-12A	12-Circuit NCTE/DST Mounting Assembly with -48Vdc, 2.5A power	519.00
262PR-12	12-Circuit NCTE/DST Mounting Assembly with -48Vdc, 1.25A power, equipped with ringing generator	507.00
262PR-12A	12-Circuit NCTE/DST Mounting Assembly with -48Vdc, 2.5A power, equipped with ringing generator	638.00

floor mounting

262PO-24	24-Circuit NCTE/DST Mounting Assembly with -48Vdc, 2.5A power	807.00
262PO-24A	24-Circuit NCTE/DST Mounting Assembly with -48Vdc, 4.0A power	995.00
262PR-24	24-Circuit NCTE/DST Mounting Assembly with -48Vdc, 2.5A power, equipped with ringing generator	916.00
262PR-24A	24-Circuit NCTE/DST Mounting Assembly with -48Vdc, 4.0A power, equipped with ringing generator	1,115.00
262PO-48	48-Circuit NCTE/DST Mounting Assembly with -48Vdc, 10.0A power	1,778.00
262PR-48	48-Circuit NCTE/DST Mounting Assembly with -48Vdc, 10.0A power, equipped with ringing generators	1,974.00
262PO-84	84-Circuit NCTE/DST Mounting Assembly with -48Vdc, 10.0A power	2,673.00
262PR-84	84-Circuit NCTE/DST Mounting Assembly with -48Vdc, 10.0A power, equipped with ringing generators	2,967.00

rack mounting	
262B-12	12-Circuit NCTE/DST Mounting Assembly with connectorized backplane 23-inch rack-mounting, 2 additional slots available for Type 10 power and/or ringing supplies 229.00

associated modules, Type 10**Data Station Termination (DST)****4Wire-to-4Wire**

4417	4W-4W DST with passive presc. loss, seal. curr., and 2-tone lpbk. w/20-min. timeout, no jacks (829A equiv.) (Issue 2) 113.00
4417A	4W-4W DST with passive presc. loss, bantam jks., seal. curr., and 2-tone lpbk. w/20-min. time-out (829A equiv.) (Issue 2) 120.00
4417B	4W-4W DST with passive presc. loss, bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout (829A equiv.) (Issue 2) 120.00
4418	4W-4W DST with presc. gain, rcv. 309B-equiv. eql., seal. curr., and 2-tone lpbk. w/20-min. timeout, no jacks, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2) 132.00
4418A	4W-4W DST with presc. gain, rcv. 309B-equiv. eql., bantam jks., seal. curr., and 2-tone lpbk. w/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) 135.00
4420B	4W-4W DST with presc. gain, presc. rcv. slope/bump eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) 132.00

4Wire-to-4Wire or 4Wire-to-2Wire (switchable)

4416A	4W-4W/2W DST with presc. gain, rcv. 309B-equiv. eql., bantam jks., seal. curr., and 2-tone lpbk. w/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2) 147.00
4416B	4W-4W/2W DST with presc. gain, rcv. 309B-equiv. eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2) 147.00
4419B	4W-4W/2W DST with presc. gain, presc. rcv. slope/bump eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) 147.00

Duplex (DX) Signaling**2Wire-to-2Wire**

6041	2W-2W DX-to-E&M (DX1) Network Channel Terminating Module with repeat coil 79.00
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4Wire-to-2Wire

6042	4W-2W DX-to-E&M Term. Repeater with rcv. slope eql. and 310-type jks. 122.00
6042A	4W-2W DX-to-E&M Term. Repeater with rcv. slope eql., 310-type jks., and 2-tone or time-out lpbk. w/timeout 156.00

4Wire-to-4Wire

6044	4W-4W DX-to-E&M Term. Repeater with rcv. slope eql. and 310-type jks. 120.00
6044A	4W-4W DX-to-E&M Term. Repeater with rcv. slope eql., 310-type jks., and 2-tone lpbk. w/timeout 170.00
6166	4W-4W DX-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk. 151.00
6166A	4W-4W DX-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone lpbk. with 4/20-min. timeout 193.00

4Wire-to-4Wire or 4Wire-to-2Wire (switchable)

6043	4W-4W/2W DX-to-E&M Term. Repeater with presc. gain, presc. rcv. slope eql., and bantam jks. (Issue 2) 139.00
6043A	4W-4W/2W DX-to-E&M Term. Repeater with presc. gain, rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout (Issue 3) 175.00
6168	4W-4W/2W DX-to-E&M Term. Repeater with presc. gain, presc. rcv. 309B-equiv. eql., and bantam jks., no lpbk. 149.00
6168A	4W-4W/2W DX-to-E&M Term. Repeater with presc. gain, presc. rcv. and xmt. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout 179.00

Single-Frequency (SF) Signaling**SF-to-E&M**● **4Wire-to-2Wire**

6122	4W-2W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., bantam jks. 289.00
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6122A	4W-2W SF-to-E&M Term. Repeater with presc. gain, rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout	317.00
6162	4W-2W SF-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	289.00
6162A	4W-2W SF-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	317.00
● 4Wire-to-4Wire		
6047	4W-4W SF-to-E&M Term. Repeater with presc. gain, rcv. slope/bump eql., xmt. slope pre-eql., bantam jks.	253.00
6047A	4W-4W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout	296.00
6161	4W-4W SF-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	253.00
6161A	4W-4W SF-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	296.00
● 4Wire-to-4Wire 4Wire-to-2Wire (switchable)		
6048	4W-4W/2W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., bantam jks.	295.00
6048A	4W-4W/2W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout	326.00
SF-to-FXS		
NOTE: One 6123X or 6163X module can be used at each end of a circuit for automatic ringdown (ARD) operation.		
● 4Wire-to-2Wire		
6123	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., and bantam jks.	295.00
6123A	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, presc. rcv. slope/bump eql., presc. xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout	320.00
6163	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	295.00
6163A	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	320.00
SF-to-FXO		
● 4Wire-to-2Wire		
6124	4W-2W SF-to-FXO Intermed. Repeater with presc. gain, presc. rcv. slope/bump eql., presc. xmt. slope pre-eql., and bantam jks.	295.00
6124A	4W-2W SF-to-FXO Intermed. Repeater with presc. gain, presc. rcv. slope/bump eql., presc. xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout	320.00
6164	4W-2W SF-to-FXO Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	295.00
6164A	4W-2W SF-to-FXO Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	320.00
Repeaters		
4Wire-to-2Wire		
4024B	4W-2W Term. Repeater with presc. gain, presc. rcv. slope eql., bantam jks., SX/AB switch, and NCTE pinouts, accepts plug-on PBN	144.00
4024C	4W-2W Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., SX/AB switch, and NCTE pinouts	157.00
4024CL	4W-2W Term. Repeater with presc. gain, rcv. 309B-equiv. eql., SX/AB switch, bantam jks., NCTE pinouts, and 2-tone lpbk. with 4/20-min. timeout	159.00
4024E	4W-2W Term. Repeater with presc. gain, presc. rcv. slope eql., bantam jks., SX/AB switch, and NCTE pinouts, accepts plug-on PBN	126.00
4Wire-to-4Wire		
4001	4W-4W Intermed. Repeater with rcv. slope/bump eql., xmt. slope pre-eql., and 310-type jks.	109.00
4001A	4W-4W Intermed. Repeater with rcv. and xmt. slope/bump eql. and 310-type jks.	149.00
4001C	4W-4W Intermed. Repeater with presc. gain, presc. rcv. and xmt. slope eql., bantam jks., and seal. curr. on fac. and sta. sides	127.00
4001F	4W-4W Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and seal. curr. on fac. side	127.00

Pad/Transformers

4401*	4Wire Pad Module with 310 jks. and no transformers	55.00
4402*	4Wire Pad/Transformer module, facility, with 310-type jks.,	70.00
4402S*	4Wire Pad/Transformer module, facility, with seal. curr. and 310-type jks.	70.00
4403*	4Wire Pad/Transformer module, office, with 310-type jks.	70.00
4404*	4Wire Pad/Transformer module, station, with 310-type jks.	70.00
4404S*	4Wire Pad/Transformer module, station, with seal. curr. and 310-type jks.,	70.00
4410	Prescription 4Wire Pad/Transformer module, with bantam jks	65.00
4410S	Prescription 4Wire Pad/Transformer module, with seal. curr. and bantam jks	70.00

Power Supplies and Ringing Generators

8007	Power Supply, 117/230Vac 60Hz input, 48Vdc 10A output, 19-inch rack mount (same as model 79-0029)	353.00
8020	Power Supply, 117Vac 50/60Hz input, 48Vdc 1.25A output, Type 10 or KTU mount, KTU hardware included	120.00
8021	Power Supply, 117/230Vac 60Hz input, 48Vdc 2.0A output, Type 10 or KTU mount, KTU hardware included	160.00
8035	Power Supply, 117Vac 50/60Hz input, switchable 24Vdc 4.0A or 48Vdc 2.0A output, Type 10 (two positions) or KTU mount, KTU hardware included	206.00
8103	Ringing Generator, 48Vdc input, 95Vac 20/30Hz 10W output, with ringing interrupter, Type 10 or KTU mount, KTU hardware included	110.00

Miscellaneous Modules

4006	Compression Amplifier with 310-type jks.	150.00
4041	Amplitude/Delay (conditioning) Equalizer with 310-type jks.	505.00

Optional USOC Adapters

262U L1	Adapter, converts USOC RJ2HX (6 cks.) to RJ21X (24 cks.)	36.00
262U L2	Adapter, converts USOC RJ2HX (6 cks.) to RJ2DX (12 cks.)	33.00
262U L3	Adapter, converts USOC RJ2HX (6 cks.) to RJ2DX (12 cks.)	33.00
262U L4	Adapter, converts USOC RJ2HX (6 cks.) to RJ2FX (8 cks.)	40.00
262U L5	Adapter, converts USOC RJ2HX (6 cks.) to RJ2GX (8 cks.)	40.00

**263A Data Station Termination (DST) System
(single circuit, Type 10 DST mounting)****mounting assemblies, wall or desk mounting**

263A	1912 Apparatus Case with rectifier/voltage doubler, translucent window, 50-pin and modular jks., NCTE/DST pinout switch, and pcb backplane wired for one DST module (module not included) (Issue 5)	43.00
263A L2	Gas Tubes (two)	9.00
263A L3	Connectorized Cable (50-5304)	9.00
263A L4	Transformer, 117Vac input, 26Vac 7.5VA output, wall-socket plug-in (same as model 8015)	9.00
263ASA12	One 263A, prewired, with 6-foot power cord and 8018 Transformer	52.00
8015	Transformer, 117Vac, 26Vac 7.5A output, wall-socket plug-in	9.00
8017	Power Supply, 117Vac 60Hz input, 48Vdc 100mA, regulated and filtered output, wall-socket plug-in	39.00
8018	Transformer, 117Vac 60Hz input, 26Vac 10VA output, with 6-foot power cord, wall-socket plug-in	9.00

associated modules, Type 10**Data Station Termination (DST)****4Wire-to-4Wire**

4412C	4W-4W DST with rcv. slope/bump eql., xmt. slope pre-eql., 310-type jks., and 2-tone, 11-freq. lpbk. (829B/C equiv.)	196.00
4412D	4W-4W DST with rcv. slope/bump eql., xmt. slope pre-eql., 310-type jks., and single-tone, 11-freq. lpbk. (timeout only) (829B/C equiv.)	196.00
4417	4W-4W DST with passive presc. loss, seal. curr., and 2-tone lpbk. w/20-min. timeout, no jacks (829A equiv.) (Issue 2)	113.00
4417A	4W-4W DST with passive presc. loss, bantam jks., seal. curr., and 2-tone lpbk. w/20-min. timeout (829A equiv.) (Issue 2)	120.00
4417B	4W-4W DST with passive presc. loss, bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout (829A equiv.) (Issue 2)	120.00

4418	4W-4W DST with presc. gain, rcv. 309B-equiv. eql., seal. curr., and 2-tone lpbk. w/20-min. time-out, no jacks, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	132.00
4418A	4W-4W DST with presc. gain, rcv. 309B-equiv. eql., bantam jks., seal. curr., and 2-tone lpbk. w/20-min. time-out, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	135.00
4420B	4W-4W DST with presc. gain, presc. rcv. slope/bump eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	135.00
4Wire-to-4Wire or 4Wire-to-2Wire (switchable)		
4412U	4W-4W/2W DST with presc. gain, presc. rcv. slope eql., bantam jks., seal. curr., and 2-tone lpbk. w/timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	151.00
4416A	4W-4W/2W DST with presc. gain, rcv. 309B-equiv. eql., bantam jks., seal. curr., and 2-tone lpbk. w/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	147.00
4416B	4W-4W/2W DST with presc. gain, rcv. 309B-equiv. eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	147.00
4419B	4W-4W/2W DST with presc. gain, presc. rcv. slope/bump eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	147.00

NOTE: 263A DST System mounting, power, and module one-line ordering codes (i.e., "SA" codes) are available. Contact Tellabs Technical Marketing Services at your Tellabs regional office for information.

263D Data Station Termination System (single-circuit, self-contained, wall-mount units)

4Wire-to-4Wire

externally powered

NOTE: The 263DA series requires an external ac or dc power supply.

263DA-1*	4W-4W DST System with presc. gain, 310-type jks., and 2-tone lpbk., accepts plug-on seal. curr. subassy. (829B equiv.)	116.00
263DA-2	4W-4W DST System with presc. gain, presc. rcv. slope eql., 310-type jks., and 2-tone lpbk., accepts plug-on seal. curr. subassy. (829B/C equiv.)	134.00

internally powered

NOTE: Each 263DB-series System has an internal transformer and 8-foot line cord.

263DB-1	4W-4W DST System with presc. gain, 310-type jks., and 2-tone lpbk., accepts plug-on seal. curr. subassy. (829B equiv.)	132.00
263DB-2	4W-4W DST System with presc. gain, presc. rcv. slope eql., 310-type jks., and 2-tone lpbk., accepts plug-on seal. curr. subassy. (829B/C equiv.)	151.00

4Wire-to-4wire or 4Wire-to-2Wire

externally or line powered

NOTE: The 263DC series requires an external ac, dc, or remote line (via simplex) power source.

263DC-1	4W-4W/2W DST System with presc. gain, 310-type jks., 2-tone lpbk. w/timeout, and seal. curr. (829B equiv.)	149.00
263DC-2	4W-4W/2W DST System with presc. gain, presc. rcv. slope eql., 310-type jks., 2-tone lpbk. w/timeout, and seal. curr. (829B/C equiv.)	156.00

associated power supplies and accessories

263D L1	Sealing Current subassembly, used with 263DA and 263DB series	9.00
263D L2	Gas Tubes, two, used with 263DA, 263DB, and 263DC series	9.00
8015	Transformer, 117Vac 60Hz input, 26Vac 7.5VA output, wall-socket plug-in	9.00
8017	Power Supply, 117Vac 60Hz input, 48Vdc 100mA regulated and filtered output, wall-socket plug-in	39.00
8018	Transformer, 117Vac 60Hz input, 26Vac 10VA output, with 6-ft. power cord, wall-socket plug-in	9.00

263E Data Station Termination (DST) System (single-circuit, Type 10 DST mounting)

mounting assemblies with integral power supply, wall or desk mounting

263E-1	Apparatus Case with integral 48Vdc power supply and 8-foot ac power cord, translucent cover, 8-pin minimodular modem jack, NCTE/DST pinout switch, with pcb wired for one NCTE/DST module	43.00
263E-4	Apparatus Case with integral 48Vdc power supply and 8-foot ac power cord, translucent cover, 8-pin minimodular modem jack, 25-pair female Amphenol-type connector, PWC (GTE) wiring arrangement, with pcb wired for one 4419C DST module	43.00

associated modules, Type 10, for 263E-1 Apparatus Case

NOTE: The 263E-1 Apparatus Case uses the same associated modules as the 263A DST System (see page 13).

mounting assemblies, wall or desk mounting

263E-2	Apparatus Case, translucent cover, 8-pin minimodular modem jack, wired for one DST module	33.00
263E-3	Apparatus Case, translucent cover, 25-pair female Amphenol-type connector for modem, wired for one DST module	33.00

associated modules, Type 10, for 263E-2 or 263E-3 apparatus cases

4Wire-to-4Wire

4417	4W-4W DST with passive presc. loss, seal. curr., and 2-tone lpbk. w/20-min. timeout, no jacks (829A equiv.) (Issue 2)	113.00
4417A	4W-4W DST with passive presc. loss, bantam jks., seal. curr., and 2-tone lpbk. w/20-min. timeout (829A equiv.) (Issue 2)	120.00
4417B	4W-4W DST with passive presc. loss, bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout (829A equiv.) (Issue 2)	120.00
4418	4W-4W DST with presc. gain, rcv. 309B-equiv. eql., seal. curr., and 2-tone lpbk. w/20-min. timeout, no jacks, accepts plug-on xmt. pre eql. (829B/C equiv.) (Issue 2)	132.00
4418A	4W-4W DST with presc. gain, rcv. 309B-equiv. eql., bantam jks., seal. curr., and 2-tone lpbk. w/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	135.00
4420B	4W-4W DST with presc. gain, presc. rcv. slope/bump eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	132.00

4Wire-to-4Wire or 4Wire-to-2Wire

4416A	4W-4W/2W DST with presc. gain, rcv. 309B-equiv. eql., bantam jacks, seal. curr., and 2-tone lpbk. w/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	147.00
4416B	4W-4W/2W DST with presc. gain, rcv. 309B-equiv. eql., bantam jacks, seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	147.00
4419B	4W-4W/2W DST with presc. gain, presc. rcv. slope/bump eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	147.00

associated power and accessories

263E L1	Gas Tubes, two	9.00
8015	Transformer, 117Vac, 26Vac 7.5VA output, wall-socket plug-in	9.00
8017	Power Supply, 117Vac 60Hz input, 48Vdc 100mA regulated and filtered output, wall-socket plug-in	39.00
8018	Transformer, 117Vac 60Hz input, 26Vac 10VA output, with 6-ft. power cord, wall-socket plug-in	9.00

265A Voice Signaling System

mounting assemblies, wall or desk mounting

265A	1913 Apparatus Case, two-module, with pcb backplane, wired for one 400X-family Line Amp or 4422 Repeat Coil and one 4406 4Wire Station Termination module (modules not included)	102.00
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associated modules, Type 10

facility interface modules	
4001	4W-4W Intermed. Repeater with rcv. slope/bump eql., xmt. slope pre-eql., and 310-type jks. 109.00
4001A	4W-4W Intermed. Repeater with rcv. and xmt. slope/bump eql. and 310-type jks. 149.00
4001C	4W-4W Intermed. Repeater with presc. gain, rcv. and xmt. slope eql., bantam jks., and seal. curr. on fac. and sta. sides 127.00
4001F	4W-4W Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and seal. curr. on fac. side 127.00
4003C	4W-4W Intermed. Repeater with presc. gain, presc. rcv. and xmt. slope eql., bantam jks., and 2-tone 11-freq. lpbk. 161.00
4422	Repeat Coil, dual 55.00
station interface module	
4406	4Wire Key Station Termination with sidetone amplifier and pickup relay 109.00

**266XR Transmission and Loop-to-E&M Signaling System
(registered per FCC Registration No. BPX826-69945-WP-E)**

mounting assemblies, relay-rack mounting, Type 15

266AR-12	1512 Mounting Assembly, 19-inch, Type 15, wired for twelve 6461R modules, with connectorized backplane (modules not included) 277.00
266AR-24	1512 Dual-Shelf Mounting Assembly, 19-inch, Type 15, wired for twenty-four 6461R modules, with connectorized backplane (modules not included) 551.00

associated modules, Type 15

transmission module	
6461R	4W-4W/2W Common Signaling Module, passive (used with 9961X Signaling Converter subassemblies) (Type 15) 149.00
signaling converter subassemblies	
9961A	FXS-to-E&M Signaling Converter subassembly (for 6461R) 94.00
9961BR	FXO-to-E&M Signaling Converter subassembly (for 6461R) 89.00
9961C	AC-Ringdown-to-E&M Signaling Converter subassembly (for 6461R) 89.00
9961D	DX-to-E&M (DX1/DX2) Signaling Converter subassembly (for 6461R) 99.00
9961E	Pulse-Link Repeater subassembly (for 6461R) 65.00

mounting assembly, relay-rack mounting, Type 10

266D	Registered Network Interface System, wired for twelve 6131 modules, with connectorized backplane (modules not included) 250.00
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associated modules, Type 10

6131	2W/4W-4W Terminal Interface Module (rprr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (accepts 6008X-series Signaling Converter Subassemblies) 147.00
6131A	2W/4W-4W FXS-to-E&M Terminal Interface Module (rprr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (includes 6008A Signaling Converter Subassembly) 232.00
6131B	2W/4W-4W FXO-to-E&M Terminal Interface Module (rprr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (includes 6008B Signaling Converter Subassembly) 232.00
6131C	2W/4W-4W DX-to-E&M Terminal Interface Module (rprr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (includes 6008C Signaling Converter Subassembly) 232.00
6131D	2W/4W-4W E&M-to-E&M Terminal Interface Module (rprr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (includes 6008D Signaling Converter Subassembly) 212.00

mounting assemblies, relay-rack mounting, Type 10 NCTE

266E	Network Interface System, wired for twenty-four 6132 or other NCTE Type 10 modules, with connectorized backplane (modules not included) 450.00
266EF	Network Interface System, wired for twenty-four 6132 or other NCTE Type 10 modules, with connectorized backplane, flush-mounted (modules not included) 475.00

associated modules, Type 10

6132	2W/4W-4W Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (accepts 6008X-series Signaling Converter Subassemblies)	147.00
6132A	2W/4W-4W FXS-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (includes 6008A Signaling Converter Subassembly)	232.00
6132B	2W/4W-4W FXO-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (includes 6008B Signaling Converter Subassembly)	232.00
6132C	2W/4W-4W DX-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (includes 6008C Signaling Converter Subassembly)	232.00
6132D	2W/4W-4W E&M-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (includes 6008D Signaling Converter Subassembly)	12.00

NOTE: All associated modules for 262 NCTE/DST Systems can also be used in 266E and 266EF Mounting Assemblies.

267S SF Signaling and Terminating System

NOTE: Each circuit in a 267S Assembly can consist of one or two modules. The 6927A, 6947A, and 6962 SF Signaling Sets with Gain are complete SF signaling and terminating circuits packaged as single modules. The 6922 through 6925 and 6941 through 6945 SF Signaling Set modules, however, may require an associated 4944 Line Amp as the facility-interface portion of their circuits if facility interface levels are other than standard +7 receive and -16 transmit TLP's (transmission level points). As an alternative, a Tellabs 6919X Echo Canceller can be used in conjunction with the SF Signaling Set if echo control is required. Thus, depending upon the modules selected, a 267S Assembly can accommodate the following:

- Two complete circuits if two SF sets with gain are used.
- Two complete circuits if standard +7 receive and -16 transmit facility-interface TLP's are present.
- One circuit with echo control if an SF set with gain and an echo canceller are used.
- One circuit if an SF set without gain and a line amp are used.

mounting assemblies, wall or desk mounting

267SPR	Apparatus Case, two-module, with pcb backplane, integral ring generator, and 8016 Power Supply (modules not included)	242.00
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associated modules, Type 16

6922	4W-2W SF-to-E&M Signaling Set with 600/900-ohm term. set (FAC/FAD), accepts plug-on PBN (Type 16)	267.00
6923	4W-2W SF-to-FXS Signaling Set with 600/900-ohm term. set (FSA/FSB), accepts plug-on PBN (Type 16)	306.00
6924	4W-2W SF-to-FXO Signaling Set with 600/900-ohm term. set (FLA/FLB), accepts plug-on PBN (Type 16)	306.00
6925	4W-2W SF-to-Ringdown Signaling Set with 600/900-ohm term. set (FRD), accepts plug-on PBN (Type 16)	308.00
6927A	4W-2W Universal (E&M/FXS/FXO) SF Signaling Set with presc. gain and 600/900-ohm term. set, accepts plug-on rcv. and xmt. eql. and plug-on PBN (Type 16)	337.00
6941	4W-4W SF-to-DX Signaling Set (FDX) (Type 16)	292.00
6942	4W-4W SF-to-E&M Signaling Set (FUA/FBB or FUA/FBN) (Type 16)	212.00
6943	4W-4W SF-to-FXS Signaling Set (FRA) (Type 16)	286.00
6944	4W-4W SF-to-FXO Signaling Set (FPA) (Type 16)	286.00
6945	4W-4W SF-to-Ringdown Signaling Set (FRD) (Type 16)	296.00
6947A	4W-4W Universal (E&M/FXS/FXO) SF Signaling Set with presc. gain, accepts plug-on rcv. and xmt. eql. (Type 16)	302.00
6962	4W-4W SF-to-E&M Signaling Set with presc. gain and presc. rcv. slope eql., accepts plug-on xmt. eql. (Type 16)	204.00

269 SF Signaling and Terminating System

NOTE: Each complete circuit in a 269 System normally consists of two modules; an SF signaling set and a facility interface device. For SF signaling sets with gain (6927A, 6947A, and 6962), the required facility interface device is the 4740A Bypass Module. (The 4740A provides the necessary circuit continuity through the 269 Assemblies when the aforementioned SF signaling sets with gain are used in these assemblies.) For SF signaling sets without gain (6922 through 6925 and 6941 through 6945), the required facility device is a 4744 Line Amp. Each 269 Assembly is a dual-shelf enclosure that houses the transmission interface module directly above its associated SF signaling set module.

If desired, a Tellabs 6919X Echo Canceller can be used in one or more circuits of a 269 System by installing each 6919X in the module position to the immediate right of its associated SF module. The module position above the 6919X then remains empty. Please note that use of 6919X Echo Cancellers in this manner can reduce the circuit capacity of a 269 Assembly by up to half, depending upon the number of circuits requiring echo control.

mounting assemblies

relay-rack mounting

269A	Mounting Assembly, dual-shelf, 19-inch, wired for 12 circuits, with connectorized backplane (modules not included)	418.00
269B	Mounting Assembly, dual-shelf, 23-inch, wired for 12 circuits, with connectorized backplane (modules not included)	428.00

wall mounting

269SPO	Apparatus Case, wired for four circuits, with pcb backplane, also includes one power supply (modules not included)	619.00
269SPR	Apparatus Case, wired for four circuits, with pcb backplane, also includes one power supply and one ring generator (modules not included)	680.00

associated modules, Type 15 (upper shelf) and Type 16 (lower shelf)

facility interface modules, Type 15

4740A*	4Wire Bypass Module (Type 15) (cannot be used with associated echo canceller)	51.00
4744	4W-4W Intermed. Repeater (line amp) with rcv. and xmt. slope/bump eql. (Type 15, used only with 6900-family modules in 269 Assemblies)	160.00

SF signaling and terminating modules, Type 16

6922	4W-2W SF-to-E&M Signaling Set with 600/900-ohm term. set (FAC/FAD), accepts plug-on PBN (Type 16)	267.00
6923	4W-2W SF-to-FXS Signaling Set with 600/900-ohm term. set (FSA/FSB), accepts plug-on PBN (Type 16)	306.00
6924	4W-2W SF-to-FXO Signaling Set with 600/900-ohm term. set (FLA/FLB), accepts plug-on PBN (Type 16)	306.00
6925	4W-2W SF-to-Ringdown Signaling Set with 600/900-ohm term. set (FRD), accepts plug-on PBN (Type 16)	308.00
6927A	4W-2W Universal (E&M/FXS/FXO) SF Signaling Set with presc. gain and 600/900-ohm term. set, accepts plug-on rcv. and xmt. eql. and plug-on PBN (Type 16)	337.00
6941	4W-4W SF-to-DX Signaling Set (FDX) (Type 16)	292.00
6942	4W-4W SF-to-E&M Signaling Set (FUA/FBB or FUA/FBN) (Type 16)	212.00
6943	4W-4W SF-to-FXS Signaling Set (FRA) (Type 16)	286.00
6944	4W-4W SF-to-FXO Signaling Set (FPA) (Type 16)	286.00
6945	4W-4W SF-to-Ringdown Signaling Set (FRD) (Type 16)	296.00
6947A	4W-4W Universal (E&M/FXS/FXO) SF Signaling Set with presc. gain, accepts plug-on rcv. and xmt. eql. (Type 16)	302.00
6962	4W-4W SF-to-E&M Signaling Set with presc. gain and presc. rcv. slope eql., accepts plug-on xmt. eql. (Type 16)	204.00

280B Teleconferencing System

NOTE: Each 280BX System requires one 2802 Conference Port Gain Control Module. Each conference port requires either one 2801 PBX Station Interface Module or one 2804M1 PBX/CO Trunk Interface Module.

systems

280B-1	4-Port Meet-Me Conference Bridge; includes common-control equipment and system cabling	2,445.00
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280B-2	9-Port Meet-Me Conference Bridge; includes common-control equipment and system cabling	3,735.00
280B-3	14-Port Meet-Me Conference System; includes common-control equipment and system cabling	5,025.00
280B-4	18-Port Meet-Me Conference System; includes common-control equipment, system cabling, and expansion equipment	7,541.00
280B-5	23-Port Meet-Me Conference System; includes common-control equipment, system cabling, and expansion equipment	8,831.00
280B-6	28-Port Meet-Me Conference System; includes common-control equipment, system cabling, and expansion equipment	10,121.00

standard components

280BC	Common-Control Shelf wired for 4 conference ports; includes all common-control equipment; conference interface modules not included	2,445.00
280BS	5-Port station shelf wired for 5 conference ports; includes fuse and alarm module	1,290.00
2802	Conference Port Gain Control Module (one required per conference port)	216.00

system interface options

2801	PBX Station Interface Module (2wire) (one required per station line)	210.00
2804M1	PBX/CO Trunk Interface Module (one required per trunk line)	263.00

expansion equipment

280BE	Expansion Equipment, used to expand the 280B System to more than 14 ports; includes one 4422 Dual Repeat Coil module and one 50.5802 Expansion Cable	71.00
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281 Teleconferencing System**(registered per FCC Registration No. BPX826-64443-KF-E)**

NOTE: Each 281A or 281B Teleconferencing System consists of the following equipment; cabinet, mounting shelves, common control modules, one attendant console, cables, key panel, fuse panel, power supply, and ring generator. Line modules must be ordered separately. Specify one 2801, one 2802, and one 9990 for each teleconferencing line required.

systems

281A	10-line Teleconferencing System	14,408.00
281A-1	Common equipment for expanding 10-line System to 15-line System (includes all common equipment only)	6,446.00
281B	15-Line Teleconferencing System	20,684.00

associated modules, Type 10

2801	2Wire Interface Module	210.00
2802	2Wire Switched-Gain Amplifier Module	216.00
9990	Console Key System Line Card	90.00

optional equipment

80-0157	Second Attendant Console for 10-line System (281A)	380.00
80-0156	Second Attendant Console for 15-line System (281B)	550.00

Custom Meet-Me Conference Systems

NOTE: Tellabs offers a custom meet-me conference bridge that provides basic teleconferencing functions for up to 28 stations. Contact your Tellabs Regional Sales Office for additional product information and pricing.

291 Two-Way Conference/Alerting System (30-station maximum)**mounting assemblies, relay-rack mounting**

291B-1	Mounting Assembly, universal 19- or 23-inch, for 10 stations	730.00
291B-2	Mounting Assembly, universal 19- or 23-inch, for 20 stations	1,060.00
291B-3	Mounting Assembly, universal 19- or 23-inch, for 30 stations	1,395.00
291D	Station Shelf for adding up to 10 stations, 23-inch, with cables	355.00

associated modules, Type 10

6073	DTMF Dial Decoder (1, 2, or 3-digit)	291.00
9003	Ringling Interrupter Control Module	179.00

9003A	Ringing Interrupter Control Module with zero-crossing network	179.00
9021	Fuse Module with thirteen 0.25A Bussman GMT-type fuses	72.00
9121	Tone Supply	150.00
9132	Ringing Timer	86.00
9133	Long Interval Timer	149.00
9191	Station Ringdown Activation Module	175.00
9192	System Activation Module (requires sleeve-lead control)	170.00
9193	System Activation Module (for manual activation from dedicated telephone)	149.00
9194	Conference Amplifier Module	141.00
9195	Remote Access Conference Module (requires sleeve-lead control)	112.00
9196	System Activation Module for remote conference initiation or access (loop start)	207.00

292R Two-Way Conference/Alerting System (60-station maximum) (registered per FCC Registration No. BPX826-68172-KF-N)

mounting assemblies, relay-rack mounting

292BR-1	Mounting Assembly, universal 19- or 23-inch for 10 stations	990.00
292BR-2	Mounting Assembly, universal 19- or 23-inch for 20 stations	1,465.00
292BR-3	Mounting Assembly, universal 19- or 23-inch for 30 stations	1,940.00
292BR-4	Mounting Assembly, universal 19- or 23-inch for 40 stations	2,415.00
292BR-5	Mounting Assembly, universal 19- or 23-inch for 50 stations	2,885.00
292BR-6	Mounting Assembly, universal 19- or 23-inch for 60 stations	3,365.00
292DR	Station Shelf for adding up to 10 stations, universal 19- or 23-inch, with cables	475.00

associated modules, Type 10

6073	DTMF Dial Decoder (1, 2, or 3-digit)	291.00
9003	Ringing Interrupter Control Module	179.00
9003A	Ringing Interrupter Control Module with zero-crossing network	179.00
9021	Fuse Module, with thirteen 0.25A Bussman GMT-type fuses	72.00
9121	Tone Supply	150.00
9132	Ringing Timer	86.00
9133	Long Interval Timer	149.00
9291	Station Ringdown Activation Module	193.00
9293	System Activation Module (for manual activation from dedicated telephone)	217.00
9294	Conference Amplifier Module	67.00
9296	System Activation and Remote Access Module	178.00

Group or Community One-Way Alerting Systems

- 293 and 294 One-Way Alerting Systems (registered per FCC Registration No. BPX826-69545-OT-N)
- 345 Status and Control Concentrator System
- 930 Alerting Control System

Contact your Tellabs regional office for complete product information and pricing on any of the above systems.

334 Selective Signaling Terminal (SST)

NOTE: The 334 Selective Signaling Terminal is a multistation communication system that provides one, two, or three-digit selective signaling and dial-controlled conferencing over a private 4wire telephone network. Two separate packages may be ordered. The standard package operates in SS-1, SS-1A, SS-3, and SS-4 applications and provides on-network or off-network operation. The Selective Branch Exchange (SBX) package contains all the features of the standard package plus key-system capability.

To order a standard 334 SST, specify a mounting assembly (334A, 334B, 334BR, 334C, or 334D) and a common-control module complement (334 L3 or 334 L4). Station modules (3407), external-control (3408A and 3408B), and off-network-access modules (3409, 3410A, 3410B, 3411A, and 3411B) must be specified separately.

In applications requiring selective-branch-exchange (SBX) features, the 334FP3 Software Package subassembly (included with the 334 L5 and 334 L6 common-control module complements) is required. Station, external-control, and off-network-access modules must be specified separately.

As described above, the 334FP3 Software Feature Package can be obtained upon initial order by specifying the appropriate common-control module complement, or the 334FP3 package can be specified separately as a field upgrade.

mounting assemblies

wall mounting

334A	1922 Apparatus Case Assembly for 10 stations; includes one 1012 Mounting Shelf, one 8051 or 8050 Power and Ringing Supply, one 8034 DC-to-DC Converter module, and two Type 66B Terminal Blocks	869.00
334B	1922 Apparatus Case Assembly for 26 stations; includes two 1012 Mounting Shelves, two 8051 or 8050 Power and Ringing Supplies, two 8034 DC-to-DC Converter modules, and six Type 66B terminal blocks	1,582.00
334BR	1922 Apparatus Case (same as 16C) Assembly for 26 stations; includes two 1012 Mounting Shelves, two 8051 or 8050 Power and Ringing Supplies, two 8034 DC-to-DC Converter Modules, and six Type 66B terminal blocks, registered per FCC Registration No. BPX826-11561-MY-E.....	1,697.00

relay-rack mounting

334C	1012 Mounting Shelf Assembly for 10 stations; includes connectorized backplane and one 8034 DC-to-DC Converter module	398.00
334D	1012 Mounting Shelf Assembly for 16 stations; this assembly is used in conjunction with 334C Assembly to increase SST capacity to 26 stations; includes connectorized backplane and one 8034 DC-to-DC Converter module	406.00
334 L20	Rack-Mounting Adapter, 23-inch, for 334C and 334D	16.00

common-control modules, Type 10

3401	SST Master Control Module (includes 334FP2 standard SST software feature package)	570.00
3402	SST System Clock Module.....	88.00
3403	SST Time Slot Interchange Module	184.00
3404	SST 4Wire Interface Module (accepts 9914 Tone Detector subassembly)	224.00
9914	Tone-Activated Loopback Subassembly (optional, mounts on 3404)	39.00
3405	SST Tone Generator module.....	190.00
3406	SST Tone Generator and DTMF Transceiver module.....	359.00
3420	SST Dual DTMF Receiver module (for SBX operation with DTMF telephones)	530.00

station and external-control modules, Type 10

3407	SST Dual 4Wire Station Circuit Module	306.00
3408A	SST External Control Module (provides contact closures)	177.00
3408B	SST External Control Module (monitors contact closures)	240.00
3409	SST 4Wire E&M/Off-Net Access Module.....	326.00
3410A	SST 2Wire Trunk/Station Access Module with 9930 plug-on Precision Balance Network (PBN) for loaded cable	398.00
3410B	SST 2Wire Trunk/Station Access Module with 9932 plug-on PBN (for nonloaded cable) ...	398.00
3411A	SST PBX/CO Line Interface Module with 9930 plug-on PBN (for loaded cable)	398.00
3411B	SST PBX/CO Line Interface Module with 9932 plug-on PBN (for nonloaded cable)	398.00

software feature package

334FP3	SST Selective Branch Exchange (SBX) Software Feature Package (mounts on 3401)	700.00
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module complements, Type 10

334 L3	Standard common-control modules for SST operation with rotary-dial telephones; includes 3401 with 334FP2 standard software feature package, 3402, 3403, 3404, and 3405 modules	1,256.00
334 L4	Common-control modules for standard operation and SS3 operation, both with rotary dial and/or DTMF telephones; includes 3401 with 334FP2 standard software feature package, 3402, 3403, 3404, and 3406 modules	1,425.00
334 L5	Same as 334 L3 but with 334FP3 Selective Branch Exchange software feature package for SBX operation	1,956.00
334 L6	Same as 334 L4 but with 334FP3 Selective Branch Exchange software feature package for SBX operation and 3420 SST Dual DTMF Receiver module for operation with DTMF telephones	2,655.00

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334 Programmable AUTOVON Exchange (PAX) (registered per FCC Registration No. BPX-826-12814-MF-E)

NOTE: The registered Tellabs 334 PAX System is a microprocessor-based multiport voice switch that allows up to 18 stations to access a single AUTOVON line. The 334 PAX also provides such secondary functions as conferencing, local intercom communication between System stations, and access to the public switched telephone network. In addition to the FCC-registered 334 PAX Mounting Assembly (334BRP), the 334 PAX can be housed in several other assemblies. Wall-mounted (334A and 334B) and rack-mounted (334C and 334D) shelves can accommodate up to 24 stations within a single System. The 334 PAX interfaces AUTOVON V2 and S3 lines and meets or exceeds Universal Multiline Adapter (UMLA) Type I through Type IV requirements.

system package

334 PAX	334BRP Mounting Assembly with power and ringing supply and with common-control modules for operation with rotary-dial and DTMF telephones; includes 3401P, 3402, 3403, 3404, 3406P and 3409P modules (station modules not included)	4,244.00
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mounting assembly, wall mounting

334BRP	Mounting Assembly, 26-station	1,697.00
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associated modules, Type 10

3401P	PAX Master Control Module	1,297.00
3402	SST System Clock Module	88.00
3403	SST Time Slot Interchange Module	184.00
3404	SST 4Wire Interface Module	224.00
9914	Tone-Activated Loopback Module (optional, mounts on 3404)	39.00
3406P	PAX Tone Generator and DTMF Transceiver Module	395.00
3407P	PAX Dual 4Wire Station Circuit Module (provides for two 4wire stations)	337.00
3408A	External Control Module (provides contact closures)	177.00
3408B	External Control Module (monitors contact closures)	240.00
3409	SST 4Wire E&M Off-Net-Access Module (for data port applications)	326.00
3409P	PAX 4Wire AUTOVON Access Module	359.00
3410PA	PAX 2Wire Trunk/Station Access Module with 9930 Precision Balance Network (PBN) subassembly (for loaded cable)	438.00
3410PB	PAX 2Wire Trunk/Station Access Module with 9932 PBN subassembly (for nonloaded cable)	438.00
3411A	SST 2Wire PBX/CO Line Interface Module with 9930 plug-on PBN (for loaded cable)	398.00
3411B	SST 2Wire PBX/CO Line Interface Module with 9932 plug-on PBN (for nonloaded cable)	398.00
3420	SST Dual DTMF Receiver module	530.00

411 T1 Channel Service Unit

NOTE: The Tellabs 411 T1 Channel Service Unit (CSU) is a protective interface designed for use on the customer's premises to interface the customer's data equipment with telco-maintained T1 transmission lines. The 411 is considered registered equipment and complies with Parts 15 and 68 of FCC Rules and Regulations and AT&T Technical Reference Publication 62411.

assembled systems

411-1	One 411A Channel Service Unit Mounting Shelf equipped with one 4110 Channel Service Unit	1,350.00
411-2	One 411A Channel Service Unit Mounting Shelf equipped with two 4110 Channel Service Units	2,450.00

mounting assembly

411A	Channel Service Unit Mounting Shelf	250.00
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associated modules

4110	Channel Service Unit module	1,100.00
4113	Simplex Power Converter module	550.00

450 T-Coder System

NOTE: The 450 T-Coder is a 2-to-1 transmission coder that allows two 24-channel 1.544Mbit/s T1 carrier lines to share the bandwidth of a single T1 link, thus providing a 2-for-1 cost savings on monthly T1-line charges. Applications include both satellite and terrestrial digital circuits. The 450

T-Coder maintains D3 voice quality without inserting appreciable delay, and its transcoded T1A (T1-compatible adaptive differential PCM) bit stream is T1 repeater-compatible. One 450 T-Coder is required at each end of a circuit.

mounting assemblies, rack mounting

453A	Mounting Assembly, 19-inch, 18-position (wired for three T-Coder Systems), factory-equipped with six 9926 CO Equalizer subassemblies	350.00
450-5	Adapter bracket, 23-inch, for 453A Mounting Assembly	20.00

associated modules, Type 18 (required)

4531	Power Supply and Alarm Module	350.00
4532	Dual Network Interface Module	1,000.00
4533	Transcoder Module	2,500.00
4534	System Control and Self-Test Module	700.00
4535	T1A Interface Module	900.00

optional modules and subassemblies

4530	Blank Module for 453A Shelf	20.00
9926	CO Equalizer subassembly, 0 to 150 ft. (standard on 453A Assembly)	25.00
9927	CO Equalizer subassembly, 151 to 450 ft.	25.00
9928	CO Equalizer subassembly, 451 to 750 ft.	25.00

T-Coder System ordering codes

450-1	One 450 T-Coder System; includes one 453A Mounting Assembly, two 4530's, one 4531, one 4532, one 4533, one 4534, and one 4535	5,800.00
450-2	Two 450 T-Coder Systems; includes one 453A Mounting Assembly, four 4530's, two 4531's, two 4532's, two 4533's, two 4534's, and two 4535's	11,250.00
450-3	Three 450 T-Coder Systems; includes one 453A Mounting Assembly, six 4530's, three 4531's, three 4532's, three 4533's, three 4534's, and three 4535's	16,700.00
450-4	450 T-Coder modules only; includes two 4530's, one 4531, one 4532, one 4533, one 4534, and one 4535	5,450.00

451 T-Coder System

NOTE: The 451 T-Coder is a 2-to-1 transmission coder that allows two 24-channel 1.544Mbit/s T1 carrier lines to share the bandwidth of a single T1 link, thus providing a 2-to-1 cost savings on monthly T1 line charges. One 451 System is required at each end of a circuit. Because the 451 T-Coder uses the CCITT (T1Y1) standard algorithm, network-wide compatibility with similar products from other manufacturers is ensured.

mounting assemblies

451A	Mounting Assembly, 19-inch (wired for 12 T-Coder Systems)	350.00
4511	CCITT Algorithm T-Coder System	4,100.00

454 24-Channel Digital Compandor System

NOTE: The Tellabs 454 24-Channel Digital Compandor System is a syllabic compandor system that directly interfaces standard 1.544Mbit/s T1 carrier facilities at the DS1 level. The 454 Compandor can be used to improve the perceived performance of noisy channels by providing a higher signal-to-noise ratio, or to provide greater channel capacity when using FDM/FM (frequency-division multiplexing/frequency modulation) transmission techniques by decreasing the per-channel FM deviation.

mounting assembly

454A	Digital Compandor Assembly (factory-equipped with eight 9926 CO Equalizer subassemblies)	400.00
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associated modules, Type 16

4543	Compression Module	1,550.00
4544	Expansion Module	975.00
6953	Power Supply and Alarm Module	425.00
9926	CO Equalizer subassembly, 0 to 150 ft. (standard on 454A Assembly)	25.00
9927	CO Equalizer subassembly, 151 to 450 ft.	25.00
9928	CO Equalizer subassembly, 451 to 750 ft.	25.00

ordering codes

454-1	One 454 System; includes one 454A Mounting Assembly, one 4543, one 4544, and one 6953	3,350.00
454-2	Two 454 Systems; includes one 454A Mounting Assembly, two 4543's, two 4544's, and two 6953's	6,300.00
454-3	Three 454 systems; includes one 454A Mounting Assembly, three 4543's, three 4544's, and three 6953's	9,250.00
454-4	Four 454 Systems; includes one 454A Mounting Assembly, four 4543's, four 4544's, and four 6953's	12,200.00
454-5	Modules only: one 4543, one 4544, one 6953	2,950.00

53X T-Carrier Cross-Connect Systems (TCS's)

NOTE: The Tellabs 530, 531, and 532 T-Carrier Cross-Connect Systems (TCS) are members of a family of microprocessor-based digital transmission systems designed as networking tools. These systems can solve many of the problems associated with T1 transmission. For instance, the 53X TCS establishes and reconfigures cross-connections between the DS0 channels of multiple T1 carrier facilities from a local or remote administrative terminal. From the same terminal, testing and maintenance operations can be performed on both the system and the T1 facilities. The 53X Systems provide a standard T1 interface at all DS1 ports and are available in the following capacities; 531, up to 8 digroups; 530, up to 64 digroups, and 532, up to 256 digroups.

Installing a 53X TCS eliminates back-to-back channel banks (plus their associated testboard interface and testboard) and also eliminates costly hard-wired channel rearrangement on cross-connect frames. Since all cross-connections are established digitally, there is no signal degradation from digital-to-analog-to-digital conversion. In addition, space requirements are considerably reduced because less equipment is required and because of the compact size of the TCS itself. All 53X Systems are modular in design and low in power consumption.

A 53X TCS is ideal for both urban and rural digital central offices and end-user networks. It simplifies consolidation and segregation of T1 facilities, which is perhaps the primary feature that makes the TCS such an efficient networking tool. Other major applications of the 53X include DS0 and DS1 cross-connection, network hubbing, digital test access, and transmission of wide-band data, audio, and video program material. In virtually any application, the TCS increases T1 flexibility, allows more efficient use of T-carrier facilities, and reduces equipment costs associated with traditional means of cross-connection and test access.

For more information on this family of systems, please contact Tellabs Technical Marketing Services at your Tellabs regional office.

Data Communication Systems

310 Datavoice System

(registered per FCC Registration No. BPX9WA-70479-OT-N)

The 310 Datavoice system is a data-over-voice carrier system that supports simultaneous bidirectional voice and data communication in a local-area network over the existing telephone system's nonloaded 2-wire station loops. Normal telephone service is unaffected, and only a single voice pair is required for both a telephone and a terminal. Service capacity is virtually unlimited, and the system is compatible with most asynchronous terminals and PBX/EPBX configurations.

terminal equipment

3121	Terminal Interface Unit (one per data/voice channel)	257.00
3121 L1	Modular Cord, 4-conductor, 7-foot	3.00
3121 L2	Adapter for Key Telephone System (also requires one 3121 L1)	25.00
3121 L3	Cord Set for ECTS and Horizon® Systems	20.00

channel termination equipment

3101	Dual Channel Termination Module (one per two data/voice channels)	246.00
3102	Dual Channel Cut-Through Module	14.00

mounting assemblies for channel termination equipment

310-4	Mounting Shelf with power supply (accommodates up to 8 data/voice channels)	700.00
310-16	Mounting Shelf, 23-inch (accommodates up to 32 data/voice channels)	996.00

power supplies

3131	Small Power Supply (accommodates up to 64 data/voice channels; 23- or 24-inch rack mounted)	700.00
3131 L1	Wire Harness for 3131 Power Supply	35.00
3132	Large Redundant Power Supply (accommodates up to 224 data/voice channels; 23-inch rack mounted)	3,450.00
3132 L1	Wire Harness for 3132 Power Supply	60.00

miscellaneous equipment

310-1	Wall-Mount Assembly (for one 310-16 Mounting Shelf and one 3131 Power Supply)	200.00
9953A	Isolation Filter (modular connector)	50.00
9953B	Dual Isolation Filter (punch-down connector)	75.00
50-4049	RJ71C 25-foot Extension Cable; connects 310 System to RJ71C blocks	39.00

NOTE: For RS-232-C cables, see Cables for 330 Dataplexer, 331 Xplexer and 310 Datavoice System section on page 28.

330 Dataplexer (statistical multiplexer)

The Tellabs 330 Dataplexers are high-performance statistical multiplexers that support up to 32 data channels over 1 or 2 composite links at speeds up to 76,800bps. A menu-driven programming mechanism allows authorized users to configure system and channel parameters, execute diagnostic tests, and retrieve operating statistics and messages from any local or remote data terminal.

Please note that each Dataplexer system does not include firmware or channel-interface modules. When ordering, please specify the type of basic system, type of firmware, number of channel modules (one to four), and expansion enclosures (if necessary).

NOTE: If you order a 330 Dataplexer by separate component part numbers (as opposed to specifying a basic system number), the equipment will be shipped unassembled and cables will not be provided.

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basic systems

330A	Dataplexer with single link RS-232-C/V.24/V.28 interface; includes one 330-0 Main Enclosure, one 3001A Single RS-232-C Link Processor Module, and one 50-7210 Composite-Link cable	900.00
330B	Dataplexer with single Plexerlink (local digital line driver/receiver) and RS-232-C/V.24/V.28 interface; includes one 330-0 Main enclosure, one 3001B Single Plexerlink/RS-232-C Processor Module, and one 50-4029 Composite Link cable	1,100.00
330C	Dataplexer with single link CCITT V.35 wideband modem and RS-232-C/V.24/V.28 interface; includes one 330-0 Main Enclosure, one 3001C Single V.35/RS-232-C Link Processor Module, and one 50-4030 Composite Link cable	1,100.00
330D	Dataplexer with dual load-sharing RS-232-C/V.24/V.28 interfaces; includes one 330-0 Main Enclosure, one 3002 Dual RS-232-C Link Processor Module, and two 50-7210 Composite Link cables	1,300.00
330E	Dataplexer with single RS-232-C/V.24/V.28 interface and integral 2400/9600bps modem; includes one 330-0 Main Enclosure, one 3001A Single RS-232-C Link Processor Module, one 3003 Modem Module, one 50-4033 Composite Data-Link Modem Interface cable, and one 50-4034 Private Line cable (Please note: For 330E's with more than eight channels, a 3301 Expansion Enclosure is required. For 330E's with more than 24 channels, two Expansion Enclosures are required.)	2,600.00
330F	Dataplexer with dual load-sharing RS-232-C/V.24/V.28 interfaces and integral 2400/9600bps modems; includes one 330-0 Main Enclosure, one 330-1 Expansion Enclosure, one 3002 Dual RS-232-C Link Processor Module, two 3003 Modem Modules, two 50-7302 Integral Modem cables, and two 50-4034 Private Line cables	5,200.00

processor modules

3001A	Single RS-232-C Link Processor Module	800.00
3001B	Single Plexerlink/RS-232-C Processor Module	1,000.00
3001C	Single V.35/RS-232-C Link Processor Module	1,000.00
3002	Dual RS-232-C Link Processor Module	1,000.00

firmware

330FP6	Single Link Firmware (used with 330A, 330B, 330C, and 330E)	300.00
330FP7	Dual Link Firmware (used with 330D and 330F)	400.00

channel modules

3007	Four-Channel Asynchronous/Synchronous Module	800.00
3008	Eight-Channel Asynchronous/Synchronous Module	1,200.00
3009	Eight-Channel Asynchronous/Synchronous Module with integral asynchronous line drivers; requires one 3010 at each terminal for line driver operation	1,500.00
3011	Eight-Channel Asynchronous Module with Mass Termination	1,000.00

modem modules

3003	Multispeed 4800/9600bps Modem Module	1,700.00
3003A	Multispeed 4800/7200/9600bps Modem Module (available second quarter 1987)	1,700.00
3003B	14.4kbps Trellis-Coded Modem Module (available second quarter 1987)	4,100.00

enclosures

The Dataplexer's main enclosure can accommodate the processor module and up to two channel or modem modules. Each expansion enclosure can house up to two additional channel or modem modules. Each modem enclosure can house up to two modem modules.

330-0	Main Enclosure	500.00
330-1	Expansion Enclosure	500.00
330-2	Main Enclosure (220Vac)	500.00
330-3	Expansion Enclosure (220Vac)	500.00
330M	Modem Enclosure	500.00

accessories

330L1	19-inch rack-mounting ears	16.00
330L2	23-inch rack-mounting ears	21.00
330L3	24-inch rack-mounting ears	22.00
3010	Asynchronous Line Driver; includes external power supply and 50-4029 cable	100.00
341C	Interface Converter, RS-232-C to V.35; includes converter, enclosure, power supply, and cables	400.00

technical manuals

Technical manuals are included with each system at no extra charge.

80-0330 330 Dataplexer Manual Set 50.00

331 Xplexer

The Tellabs 331 Xplexer is a statistical packet-switching multiplexer designed for use in distributed data communication networks. The 331 Xplexer can be used effectively as a stand-alone port concentrator in small applications or as a building block for larger switching applications in local and wide-area distributed networks.

When ordering, please specify the basic system; the firmware; one to four channel, data-link, and/or modem modules; and expansion enclosures (if necessary).

NOTE: Cables are not included with 331 Xplexer systems.

basic system

331D Xplexer Data Switching System with dual RS-232-C/V.24/V.28 interfaces; includes one 3300 Main Enclosure and one 3002 Dual RS-232-C Link Processor Module 1,300.00

firmware

331FP4 Extended Xplexer firmware 1,200.00

channel modules

3007 Four-Channel Asynchronous/Synchronous Module 800.00
 3008 Eight-Channel Asynchronous/Synchronous Module 1,200.00
 3009 Eight-Channel Asynchronous/Synchronous Module with integral asynchronous line drivers; requires one 3010 at each terminal for line driver operation 1,500.00
 3011 Eight-Channel Asynchronous Module with Mass Termination 1,000.00

processor module

3002 Dual RS-232-C Link Processor Module 1,000.00

data-link modules

3004A Quad RS-232-C Data-Link Interface Module 2,200.00
 3004B Quad Plexerlink (line driver) Interface Module 2,600.00

modem modules

3003 Multispeed 4800/9600bps Modem Module 1,700.00
 3003A Multispeed 4800/7200/9600bps Modem Module (available second quarter 1987) 1,700.00
 3003B 14.4kbps Trellis-Coded Modem Module (available second quarter 1987) 4,100.00

enclosures

The Xplexer's main enclosure can accommodate the processor module and up to two channel, data-link, or modem modules. Each expansion enclosure can house up to two additional channel, data-link, or modem modules. Each modem module can house up to two additional modem modules.

330-0 Main Enclosure 500.00
 330-1 Expansion Enclosure 500.00
 330-2 Main Enclosure (220Vac) 500.00
 330-3 Expansion Enclosure (220Vac) 500.00
 330M Modem Enclosure 500.00

accessories

330L1 19-inch rack-mounting ears 16.00
 330L2 23-inch rack-mounting ears 21.00
 330L3 24-inch rack-mounting ears 22.00
 3010 Asynchronous Line Driver, includes external power supply and 50-4029 cable 100.00
 341C Interface Converter, RS-232-C to V.35; includes converter, enclosure, power supply, and cables 400.00

technical manuals

Technical manuals are included with each system at no extra charge.

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320 Network Monitor

The 320 Network Monitor is a software package that transforms an IBM® PC AT (or compatible) into a central reporting point for 331 Xplexer networks. Event, alarm, and statistical reports are collected from the entire network and displayed in different colors to indicate severity. A database of network activity permits tracking of past events within a specific area, while hard copies of status reports can be generated either automatically or on-demand.

The Network Monitor requires an IBM PC AT (or compatible) with a Color Graphics Adapter. The Network Monitor uses the Xenix System V® Operating System, which is provided with the Network Monitor software. The parent Xplexer must be equipped with 331FP2.1C (or later) firmware.

320 Network Monitor Software 2,500.00

Cables for 330 Dataplexer, 331 Xplexer, and 310 Datavoice System

RS-232-C Cables

NOTE: XX designates the length, in feet, of the cable. All cables are available in lengths from 1 to 50 feet. Table 1 lists RS-232-C cable prices for lengths up to 10 feet. Please call Tellabs Technical Marketing Services at your Tellabs regional office for the prices of longer cables.

50-70XX	DCE-Configuration Asynchronous/Synchronous Channel cable; connects 33X to DTE equipment; also connects 3121 to data terminal and 3101 to central data equipment in 310 System	See Table 1
50-71XX	DTE-Configuration Asynchronous Channel cable; connects 33X to DCE equipment	See Table 1
50-72XX	RS-232-C/V.24/V.28 Modem Composite Link cable; connects 33X to non-integral modem	See Table 1
50-73XX	Composite Data-Link/Modem Interface cable; connects 33X to integral modem (one is required for use with each 3003 module)	See Table 1
50-74XX	Synchronous Null Modem cable assembly; connects one 33X to another 33X without modems	See Table 1
50-75XX	Special cable; connects 33X to 310 System	See Table 1

miscellaneous cables

50-4029	Plexerlink (line driver) cable with spade lugs; connects the Plexerlink in a 330B Dataplexer, 3004B Module, or 3010 Line Driver to spade lugs (10 feet); included with 330B Dataplexer	10.00
50-4030	CCITT V.35 Modem cable; connects a 330C Dataplexer to a V.35 modem (10 feet); included with 330C Dataplexer	76.00
50-4033	Composite-Data-Link Modem Interface cable; connects 3001 Processor Module to 3003 Modem Module (1.5 inches); included with 330E Dataplexer	20.00
50-4034	4Wire Private Line Interface cable with spade lugs; connects 3003 Modem Module to spade lugs; included with 330E and 330F Dataplexers	10.00
50-4048	Line Driver Channel cable with spade lugs; connects 3009 Channel Module to spade lugs; one required for each line driver channel used	19.00

Table 1. RS-232-C cable prices

length in feet	50-70XX	50-71XX	50-72XX	50-73XX	50-74XX	50-75XX
01	\$ 26.75	\$ 24.25	\$ 24.25	\$ 29.25	\$ 31.00	\$ 20.00
02	27.25	24.75	24.75	29.75	31.50	20.50
03	27.75	25.25	25.25	30.50	32.00	20.75
04	28.50	26.00	26.00	31.00	32.50	21.00
05	29.00	26.50	26.50	31.75	33.00	21.50
06	29.75	27.25	27.25	32.25	33.50	21.75
07	30.25	27.75	27.75	32.75	33.75	22.00
08	31.00	28.25	28.25	33.50	34.25	22.50
09	31.50	29.00	29.00	34.00	34.75	22.75
10	32.00	29.50	29.50	34.75	35.25	23.00

430 T-Plexer

The Tellabs 430 T-Plexer is a high-performance time-division multiplexer for data, voice, and video transmissions over T1 and other high-speed digital facilities. For more information on this product, please contact Tellabs Technical Marketing Services at your Tellabs regional office.

Amplifiers and Repeaters, Data Station Terminations, Data and Voice Bridging Modules, Program Equipment, Equalizers, Terminating and Other Modules

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NOTE: All modules in section 4 are Type 10 unless otherwise noted.

4000A	Blank Type 10 Module.	19.00
4001	4W-4W Intermed. Repeater with rcv. slope/bump eql., xmt. slope pre-eql., and 310-type jks.	109.00
4001A	4W-4W Intermed. Repeater with rcv. and xmt. slope/bump eql. and 310-type jks.	149.00
4001C	4W-4W Intermed. Repeater with presc. gain, presc. rcv. and xmt. slope eql., bantam jks., and seal. curr. on fac. and sta. sides	127.00
4001F	4W-4W Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and seal. curr. on fac. side	127.00
4003C	4W-4W Intermed. Repeater with presc. gain, presc. rcv. and xmt. slope eql., bantam jks., and 2-tone 11-freq. lpbk.	161.00
4006	Compression Amplifier with 310-type jks.	150.00
4008	Program Amplifier with 5/8kHz and 15kHz eql. and 310-type jks.	202.00
4012	Program Distribution Amplifier, 2-port, with noise threshold ckt., individual-port level control, and 310-type jks.	133.00
4018	Program Distribution Amplifier, 8-port, with noise threshold ckt., 600-ohm output impedance, and 310-type jks.	150.00
4024B	4W-2W Term. Repeater with presc. gain, presc. rcv. slope eql., bantam jks., SX/AB switch, and NCTE pinouts, accepts plug-on PBN	144.00
4024C	4W-2W Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., SX/AB switch, and NCTE pinouts	157.00
4024CL	4W-2W Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., SX/AB switch, NCTE pinouts, and 2-tone lpbk. with 4/20-min timeout	159.00
4024E	4W-2W Term. Repeater with presc. gain, presc. rcv. slope eql., bantam jks., SX/AB switch, and NCTE pinouts, accepts plug-on PBN	126.00
4041	Amplitude/Delay (conditioning) Equalizer with 310-type jks.	505.00
4050*	Cable Diagnostic Module for 24X Mounting Assembly	95.00
4110	Channel Service Unit module (for 411 System)	1,100.00
4201	Terminating Set, 600/900-ohm switchable, with 310-type jks.	104.00
4203	Terminating Set, 600/900-ohm switchable, with A&B-lead inductor and 310-type jks.	114.00
4251	2Wire DDB Combiner Amplifier with xmt. slope pre-eql. and 310-type jks. (may require 9952X filter subassembly)	98.00
4251A	2Wire DDB Presc. Combiner Amplifier with bantam jks. and seal. curr., accepts plug-on xmt. pre-eql. (may require 9952X Filter subassembly)	103.00
4252	2Wire DDB Splitter Amplifier with rcv. slope/bump eql. and 310-type jks. (may require 9952X Filter subassembly)	98.00
4252A	2Wire DDB Presc. Splitter Amplifier with rcv. 309B-equiv. eql., bantam jks., and seal. curr. (may require 9952X Filter subassembly)	103.00
4255	2Wire DDB Presc. Quad Termination Module with bantam jks. (Issue 2)	150.00
4255S	2Wire DDB Presc. Quad Termination Module with bantam jks. and seal. curr. (Issue 2)	188.00
4311	Data Conversion Module	235.00
4312	Loop Interface Module	65.00
4312A	Loop Interface Remote Control Module	74.00
4313	Alarm Station Interface Module	156.00
4322	Loop Monitor/Interface Module	102.00
4400	4Wire Bypass Module (Type 10)	39.00
4401*	4Wire Pad Module with 310-type jks. and no transformers	55.00

* Not a standard stock item. May require extended delivery interval.

4402*	4Wire Pad/Transformer Module, facility, with 310-type jks.	70.00
4402S*	4Wire Pad/Transformer Module, facility, with seal. curr. and 310-type jks.	70.00
4403*	4Wire Pad/Transformer Module, office, with 310-type jks.	70.00
4404*	4Wire Pad/Transformer Module, station, with 310-type jks.	70.00
4404S*	4Wire Pad/Transformer Module, station, with seal. curr. and 310-type jks.	70.00
4405*	4Wire Single-Line Station Termination with sidetone amplifier	99.00
4406	4Wire Key Station Termination with sidetone amplifier and pickup relay	109.00
4408	4Wire Line Termination module with sidetone amplifier	75.00
4409	Pickup Relay and (key) Station Circuit module	105.00
4410	4Wire Pad/Transformer Module, presc. with bantam jks.	65.00
4410S	4Wire Pad/Transformer Module, presc. with seal. curr. and bantam jks.	70.00
4411A	4Wire Pad/Transformer Module with 2-tone (w/timeout) or reverse seal. curr. lpbk.	136.00
4412C	4W-4W DST with rcv. slope/bump eql., xmt. slope pre-eql., 310-type jks., and 2-tone, 11-freq. lpbk. (829B/C equiv.)	196.00
4412D	4W-4W DST with rcv. slope/bump eql., xmt. slope pre-eql., 310-type jks., and single-tone, 11-freq. lpbk. (timeout only) (829B/C equiv.)	196.00
4412U	4W-4W/2W DST with presc. gain, and presc. rcv. slope eql., bantam jks., seal. curr., 2-tone lpbk. w/timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	151.00
4416A	4W-4W/2W DST with presc. gain and rcv. 309B-equiv. eql., bantam jks., seal. curr., and 2-tone lpbk. w/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	147.00
4416B	4W-4W/2W DST with presc. gain, rcv. 309B-equiv. eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	147.00
4417	4W-4W DST with passive presc. loss, seal. curr., and 2-tone lpbk. w/20-min. timeout, no jks. (829A equiv.) (Issue 2)	113.00
4417A	4W-4W DST with passive presc. loss, bantam jks., seal. curr., and 2-tone lpbk. w/20-min. timeout (829A equiv.) (Issue 2)	120.00
4417B	4W-4W DST with passive presc. loss, bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout (829A equiv.) (Issue 2)	120.00
4418	4W-4W DST with presc. gain, rcv. 309B-equiv. eql., seal. curr., and 2-tone lpbk. w/20-min. timeout, no jacks, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	132.00
4418A	4W-4W DST with presc. gain, rcv. 309B-equiv. eql., bantam jks., seal. curr., and 2-tone lpbk. w/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	135.00
4419B	4W-4W/2W DST with presc. gain, rcv. slope/bump eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	147.00
4419C	4W-4W/2W DST with presc. gain, presc. rcv. slope/bump eql., bantam jks., seal. curr., PWC (GTE) pinouts, and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	147.00
4420B	4W-4W DST with presc. gain, presc. rcv. slope/bump eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	132.00
4422	Repeat Coil, dual	55.00
4423	Repeat Coil, dual, protected	59.00
4425	Wideband Repeat Coil, dual	85.00
4444	4Wire 4Way Active Bridge for voice conferencing	84.00
4445	4Wire 5Way Active Data Bridge, one common and four multiple ports, with 310-type jks.	122.00
4445A	4Wire 5Way Active Data Bridge with expansion bus output, individual multiple-port level controls, and bantam jks.	245.00
4446	4Wire 6Way Active Bridge for voice conferencing	98.00
4449	4Wire 9Way Active Data Bridge, one common and eight multiple ports, with 310-type jks.	143.00
4451	4Wire DDB module (combiner and splitter amp) with rcv. slope/bump eql., xmt. slope pre-eql., 310-type jks., and seal. curr.	148.00
4451A	4Wire DDB module (combiner and splitter amp) with rcv. slope/bump eql., xmt. slope pre-eql., 310-type jks., seal. curr., and test-access transfer relay on brdg. side	158.00
4452A	4Wire DDB module (combiner and splitter amp), presc., with rcv. and xmt. slope eql., bantam jks., seal. curr., and test-access transfer relay on brdg. side	202.00
4452B	4Wire DDB module (combiner and splitter amp), presc., with rcv. 309B-equiv. eql., bantam jks., seal. curr., and test-access transfer relay on brdg. side, accepts plug-on xmt. pre-eql.	202.00

4453	4Wire DDB Termination module, passive, with 23dB or 0.5dB fixed loss and bantam jks., for carrier interface	43.00
4454	4Wire DDB Termination module, passive, with presc. loss, bantam jks., and seal. curr.	88.00
4454A	4Wire DDB Termination module, passive, presc. loss, with bantam jks., seal. curr., and test-access transfer relay on brdg. side	98.00
4454B	4Wire DDB Termination module, passive, presc. loss, with bantam jks., seal. curr., and test-access transfer relay on fac. side	99.00
4455	4Wire DDB Termination module, passive, presc. loss, with rcv. slope/bump eql., bantam jks., and seal. curr.	97.00
4455A	4Wire DDB Termination module, passive, presc. loss, with rcv. slope/bump eql., bantam jks., seal. curr., and test-access transfer relay on brdg. side	108.00
4456A	4Wire DDB Termination module, active, presc. rcv. slope post eql., bantam jks., seal. curr. and test-access transfer relay on fac. side, accepts plug-on xmt. pre-eql.	202.00
4456B	4Wire DDB Termination module, active, presc., with rcv. 309B-equiv. post eql., bantam jks., seal. curr., and test-access transfer relay on fac. side, accepts plug-on xmt. pre-eql.	202.00
4456C	4Wire DDB Termination module, active, presc. with rcv. slope post eql., bantam jks., seal. curr., and test-access transfer relay on bridge side, accepts plug-on xmt. pre-eql.	202.00
4456D	4Wire DDB Termination module, active, presc., with rcv. 309B-equiv. post eql., bantam jks., seal. curr., and test-access transfer relay on bridge side, accepts plug-on xmt. pre-eql.	202.00
4458	DDB DTMF Diagnostic Module for Terminate-and-Leave 4wire data bridge (244)	265.00
4459*	DDB Loopback/Facility Test Module for 4wire data bridge (244)	305.00
4462	4Wire 2Way Voice Conference Bridge with integral line amp and bantam jks.	175.00
4462B	4Wire 2Way Voice Conference Bridge with integral line amp, rcv. slope/bump eql., bantam jks., and seal. curr.	214.00
4502*	4W-4W Intermed. Repeater with rcv. slope/bump eql., xmt. slope pre-eql., Type 12	192.00
4502U*	4W-4W Intermed. Repeater with rcv. slope/bump eql., xmt. slope pre-eql., Type 12 Universal	192.00
4523*	Terminating Set, 600/900-ohm switchable, with A&B-lead inductors (Type 12)	116.00
4530	Blank Module (Type 18)	20.00
4531	Power Converter Module (Type 18)	350.00
4532	Dual T1 Interface Module (Type 18)	1,000.00
4533	Transcoder Module (Type 18)	1,650.00
4534	System Controller Module (Type 18)	700.00
4535	T1A Interface Module (Type 18)	900.00
4540	T1 Digital Delay Module (Type 10), used to simulate satellite and end-path delays	1,075.00
4542*	4Wire Pad/Transformer Module (Type 12)	99.00
4543	Compression Module	1550.00
4544	Expansion Module	975.00
4740A*	4Wire Bypass Module, (Type 15) (cannot be used with associated echo canceller)	51.00
4744	4W-4W Intermed. Repeater (line amp) with rcv. and xmt. slope/bump eql. (Type 15, used only with 6900-family modules in 269 Assemblies)	160.00
4901*	4Wire Pad Module (FMB) (Type 16)	95.00
4902*	4Wire Pad/Transformer (FMC) (Type 16)	109.00
4910*	4Wire Bypass Module (Type 16)	39.00

Signaling and Trunk Modules

NOTE: All modules in section 6 are Type 10 unless otherwise noted.

6001*	DX-to-E&M (DX1/DX2) Signaling Module, no repeat coil	89.00
6002	2W-2W DX-to-E&M (DX1/DX2) Signaling Module with repeat coil	99.00
6003	2Wire Automatic Ringdown Module	90.00
6004*	2Wire Automatic Ringdown Module with transfer relay	100.00
6006	Signaling Converter; E&M-to-ringing (D1B), SG-to-E&M (D0B), or SG-lead-to-ringing (10D)	119.00
6007	Dual Ground-Start-to-Loop-Start Converter module	99.00
6008A	FXS-to-E&M Signaling Converter subassembly with LS/GS, rev. batt., and ARD (used on 613X Terminal Interface Modules)	85.00
6008B	FXO-to-E&M Signaling Converter subassembly with LS/GS and rev. batt. (used on 613X Terminal Interface Modules)	85.00
6008C	DX-to-E&M Signaling Converter subassembly (used on 613X Terminal Interface Modules)	85.00
6008D	E&M-to-E&M Signaling Converter subassembly (used on 613X Terminal Interface Modules)	65.00
6041	2W-2W DX-to-E&M (DX1) Network Channel Terminating Module with repeat coil	79.00
6042	4W-2W DX-to-E&M Term. Repeater with rcv. slope eql. and 310-type jks.	122.00
6042A	4W-2W DX-to-E&M Term. Repeater with rcv. slope eql., 310-type jks., and 2-tone lpbk. w/timeout	156.00
6043	4W-4W/2W DX-to-E&M Term. Repeater with presc. gain, presc. rcv. slope eql., and bantam jks. (Issue 2)	139.00
6043A	4W-4W/2W DX-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout (Issue 3)	175.00
6044	4W-4W DX-to-E&M Term. Repeater with rcv. slope eql. and 310-type jks.	120.00
6044A	4W-4W DX-to-E&M Term. Repeater with rcv. slope eql., 310-type jks., and 2-tone lpbk. w/timeout	170.00
6047	4W-4W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., and bantam jks.	253.00
6047A	4W-4W SF-to-E&M Term. Repeater with presc. gain, rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout	296.00
6048	4W-4W/2W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., and bantam jks.	295.00
6048A	4W-4W/2W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout	326.00
6073	DTMF/Dial Decoder (1, 2, or 3-digit) with 12 latched or momentary outputs	291.00
6101*	SF Transceiver, 2600Hz	149.00
6102*	E&M Signaling Converter	99.00
6103*	FX Station-End Signaling Converter	109.00
6104*	FX Office-End Signaling Converter	109.00
6105*	Ringdown Signaling Converter	139.00
6106*	Data Ringdown Signaling Converter	139.00
6113	Loop-to-E&M Signaling Converter, FXS, LS/GS, and rev. batt.	98.00
6114	Loop-to-E&M Signaling Converter, FXO, LS/GS, and rev. batt.	98.00
6122	4W-2W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope eql., bantam jks., and seal. curr., accepts plug-on PBN	289.00
6122A	4W-2W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope eql., bantam jks., seal. curr., and 2-tone transm. and sig. lpbk. w/timeout, accepts plug-on PBN	317.00
6123	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., and bantam jks.	295.00
6123A	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout	320.00
6124	4W-2W SF-to-FXO Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., and bantam jks.	295.00
6124A	4W-2W SF-to-FXS Term. Repeater with presc. gain and rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk.	320.00

* Not a standard stock item. May require extended delivery interval.

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6131	2W/4W-4W Terminal Interface Module (rptr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (accepts 6008X-series Signaling Converter subassemblies)	147.00
6131A	2W/4W-4W FXS-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (includes 6008A Signaling Converter subassembly)	232.00
6131B	2W/4W-4W FXO-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (includes 6008B Signaling Converter subassembly)	232.00
6131C	2W/4W-4W DX-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., for carrier, radio or multiplexer-type interfaces (includes 6008C Signaling Converter subassembly)	232.00
6131D	2W/4W-4W E&M-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (includes 6008D Signaling Converter subassembly)	212.00
6132	2W/4W-4W Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (accepts 6008X series Signaling Converter subassemblies)	147.00
6132A	2W/4W-4W FXS-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (includes 6008A Signaling Converter subassembly)	232.00
6132B	2W/4W-4W FXO-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (includes 6008B Signaling Converter subassembly)	232.00
6132C	2W/4W-4W DX-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (includes 6008C Signaling Converter subassembly)	232.00
6132D	2W/4W-4W E&M-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, and multiplexer-type interfaces (includes 6008D Signaling Converter subassembly)	212.00
6161	4W-4W SF-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	253.00
6161A	4W-4W SF-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	296.00
6162	4W-2W SF-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	289.00
6162A	4W-2W SF-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	317.00
6163	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	295.00
6163A	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	320.00
6164	4W-2W SF-to-FXO Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	295.00
6164A	4W-2W SF-to-FXO Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	320.00
6166	4W-4W DX-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	151.00
6166A	4W-4W DX-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	193.00
6168	4W-4W/2W DX-to-E&M Term. Repeater with presc. gain, presc. rcv. 309B-equiv. eql., and bantam jks., no lpbk.	149.00
6168A	4W-4W/2W DX-to-E&M Term. Repeater with presc. gain, presc. rcv. and xmt. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	179.00
6201	Two-Way Dial Loop-to-E&M Converter with rev. batt.	169.00
6212	Quad Type-I-to-Type-II E&M Converter (Type I; E-lead in, M-lead out)	171.00
6251	SSN Trunk module (GS-to-E&M converter with delay-dial and rev. batt.)	155.00
6461R	4W-4W/2W Common Signaling Module, passive (used with 9961X Signaling Converter subassemblies) (Type 15)	149.00
6850	Common Oscillator Module, 2600Hz, with resistive distribution	199.00
6900A	Blank Module (Type 16)	25.00
6919A	Analog Echo Canceller (Type 16)	279.00

6919B	Analog Echo Canceller with Pads (Type 16)	340.00
6919C	Analog Echo Canceller with Pads and SF Bypass (Type 16)	425.00
6919H	Analog Long-End-Path Echo Canceller with Pads (Type 16)	365.00
6922	4W-2W SF-to-E&M Signaling Set with 600/900-ohm term. set (FAC/FAD), accepts plug-on PBN (Type 16)	267.00
6923	4W-2W SF-to-FXS Signaling Set with 600/900-ohm term. set (FSA/FSB), accepts plug-on PBN (Type 16)	306.00
6924	4W-2W SF-to-FXO Signaling Set with 600/900-ohm term. set (FLA/FLB), accepts plug-on PBN (Type 16)	306.00
6925	4W-2W SF-to-Ringdown Signaling Set with 600/900-ohm term. set (FRD), accepts plug-on PBN (Type 16)	308.00
6927A	4W-2W Universal (E&M/FXS/FXO) SF Signaling Set with presc. gain and 600/900-ohm term. set, accepts plug-on rcv. and xmt. eql. and plug-on PBN (Type 16)	337.00
6941	4W-4W SF-to-DX Signaling Set (FDX) (Type 16)	292.00
6942	4W-4W SF-to-E&M Signaling Set (FUA/FBB or FUA/FBN) (Type 16)	212.00
6943	4W-4W SF-to-FXS Signaling Set (FRA) (Type 16)	286.00
6944	4W-4W SF-to-FXO Signaling Set (FPA) (Type 16)	286.00
6945	4W-4W SF-to-Ringdown Signaling Set (FRD) (Type 16)	296.00
6947A	4W-4W Universal (E&M/FXS/FXO) SF Signaling Set with presc. gain, accepts plug-on rcv. and xmt. eql. (Type 16)	302.00
6953	Power Supply and Alarm Module (Type 16) (for 454 System)	425.00
6962	4W-4W SF-to-E&M Signaling Set with presc. gain and presc. rcv. slope eql., accepts plug-on xmt. eql. (Type 16)	204.00

Loop Treatment Equipment

NOTE: All modules in section 7 are Type 10 unless otherwise noted.

7001	Dial Long Line, loop start only	101.00
7001A	Dial Long Line, loop start only, with NCTE pinouts	90.00
7002	Dial Long Line, loop start or ground start	133.00
7002A	Dial Long Line, loop start or ground start, with NCTE pinouts	101.00
7011A*	OPX Range Extender with reverse battery	103.00
7201	2W-2W Switched-Gain Repeater	120.00
7206	2W-2W Switched-Gain Compression Amplifier	169.00
7206A	2W-2W Switched-Gain Compression Amplifier with fixed -9dB compression	169.00
7206B	2W-2W Switched-Gain Compression Amplifier with fixed -13dB compression	169.00
7503*	Dial Long Line, loop start or ground start (rev. batt. option provided via 9906 subassembly) (Type 12)	133.00
7525*	Test-Through Dial Long Line with switched-gain repeater (Type 12)	165.00

Power and Ringing Equipment

power and ringing supplies

8001	Power Supply, 117Vac 60Hz input, switchable 24/48Vdc 1A output, 8-foot input cord, KTU mount	97.00
8001A	Power Supply, 117Vac 60Hz input, switchable 24/48Vdc 1A output, 18-inch input cord, KTU mount	95.00
8002	Power Supply, 117Vac 60Hz input, 48Vdc 2A output, wall mounted	138.00
8003	Power Supply, 117Vac 60Hz input, 48Vdc 2A output, 19/23-inch rack mounting	173.00
8005	Power Supply, 230Vac 50/60Hz input, switchable 24/48Vdc 1A output, KTU mount	101.00
8007	Power Supply, 117/230Vac 60Hz input, 48Vdc 10A output, 19-inch rack mounted (same as model 79-0029)	353.00
8011	Power Supply, 117Vac 60Hz input, 24Vdc 0.5A output, wall-socket plug-in	53.00
8012	Power Supply, 117Vac 60Hz input, 48Vdc 0.25A output, wall-socket plug-in	43.00
8013	Power Supply, 117Vac 60Hz input, 24Vdc 0.2A and 10Vac 0.1A outputs, wall socket plug-in	43.00
8015	Transformer, 117Vac, 26Vac 7.5VA output, wall-socket plug-in	9.00
8016	Power Supply, 117Vac, 60Hz input, 48Vdc 0.55A unfiltered output, wall-socket plug-in (for use only with 260A, 267, 1914P, and 1914PR Assemblies)	26.00
8017	Power Supply, 117Vac 60Hz input, 48Vdc 100mA regulated and filtered output, wall-socket plug-in	39.00
8018	Transformer, 117Vac 60Hz input, 26Vac 10VA output, with 6 ft. power cord, wall-socket plug-in	9.00
8020	Power Supply, 117Vac 50/60Hz input, 48Vdc 1.25A output, Type 10 or KTU mount, KTU hardware included	120.00
8021	Power Supply, 117/230Vac 60Hz input, 48Vdc 2.0A output, Type 10 or KTU Mount, KTU hardware included	160.00
8034	DC-to-DC Converter, -24/-48Vdc input, +5, +12 and -12Vdc output (Type 10)	245.00
8035	Power Supply, 117Vac 50/60Hz input, switchable 24Vdc 4.0A or 48Vdc 2.0A output, Type 10 (two positions) or KTU mount, KTU hardware included	206.00
8050	Power and Ringing Supply, 117Vac 60Hz input, 24Vdc 2.5A or 48Vdc 1.25A power output, 96Vac 20/30Hz 12W ringing output, 10Vac 700mA unregulated lamp output, Type 10 (two positions) or KTU mount, KTU hardware included	242.00
8101	Ringing Generator, 117Vac 60Hz input, 80 to 110Vac 30Hz 5W output, KTU mount	61.00
8102	Ringing Generator, 24/48Vdc input, 85 to 135Vac 20Hz 5W output (can be equipped with 9903 subassembly for interrupted ringing), KTU mount	104.00
8103	Ringing Generator, 48Vdc input, 95Vac 20/30Hz 10W output, with ringing interrupter, Type 10 or KTU mount, KTU hardware included	110.00
8104	Ringing Generator, 117Vac 60Hz input, 80 to 110Vac 20/30Hz 10W output, Type 10 mount	95.00
8108	Ringing Generator, 48Vdc input, 90Vac 20Hz 20W output, KTU app. case mounting	296.00
8111	Ringing Generator, 117Vac 60Hz input, 100Vac 30Hz 2W output, wall-socket plug-in	80.00
8205	Dual 24/48/72Vdc Battery Filter and Fuse Distribution Panel, with alarm, 19/23-inch rack mounting (Issue 3, compatible with digital systems)	463.00
8205A	Dual 24/48/72Vdc Battery Filter and Fuse Distribution Panel, with alarm, 19/23-inch rack mounting (for digital systems)	483.00
8206	Dual 24/48/72Vdc Battery Filter, Fuse Distribution, and Ballast Lamp Panel, with fuses and ballast lamps, 19/23-inch rack mounting	620.00
8210	Fuse Panel, 19/23-inch rack mounting, for use with Type 10 equipment (fused for 25 circuits)	140.00
8210A	Fuse Panel, 19/23-inch rack mounting, for use with Type 10 equipment (fused for 50 circuits)	204.00
8211A	Fuse Panel, 19/23-inch rack mounting, for use with Type 12, 15, and 16 equipment (fused for 50 circuits)	204.00
8211A	Fuse Panel, 19-inch rack mounting, for use with Type 12, 15, and 16 equipment (fused for 50 circuits)	204.00

8271	Ballast Lamp Panel, 19-inch rack mounting, for 14 circuits, with ballast lamps	104.00
8272	Ballast Lamp Panel, 23-inch rack mounting, for 14 circuits, with ballast lamps	104.00

power and ringing accessories

14-9002	KTU Mounting Bars, 19-inch pair	22.00
14-9003	KTU Mounting Bars, 23-inch pair	25.00
30-7006	Ballast Lamp (for 8271 and 8272)	6.00
60-0065	Fuse, Bussman GMT-Type, 1.33 ampere	.80
60-0179	Fuse, Bussman GMT-Type, 0.25 ampere	.80
NOTE: Other fuse values are available upon request.		
64-0002	Ballast Lamp (for 8206)	2.00
80-0062	Wall Mounting Bracket (for 8001, 8001A, 8005, 8050, 8101, 8102, and 8108)	12.00

Miscellaneous Modules and Other Equipment

enclosures, panels, and modules

9001	Relay Module, 24Vdc, four relays with 4-pole form-C contacts, Type 10	51.00
9002	Relay Module, 48Vdc, four relays with 4-pole form-C contacts, Type 10	51.00
9003	Ringing Interrupter Control Module	179.00
9003A	Ringing Interrupter Control Module with zero-crossing network	179.00
9005	Quad Loop Current Detector Module with battery-feed polarity option, Type 10	157.00
9006	Multiple- (six-) Circuit Transfer Module, used for PBX bypass, GS-to-LS converter included, Type 10	237.00
9011	Pulse/Trunk-Link Repeater and Dual Pulse Corrector, Type 10	109.00
9021	Fuse Module with thirteen 0.25A Bussman GMT-type fuses	72.00
9026	Jackfield Module (eight 310-type jks.), Type 10	69.00
9091	Matrix Module (minimum modification charge \$50.00), Type 10	49.00
9117	Voice-Operated Switch module (VOX), Type 10	109.00
9121	Tone Supply, Type 10	150.00
9131	Universal Timer, Type 10	69.00
9132	Ringing Timer, Type 10	86.00
9133	Long Interval Timer, Type 10	149.00
9134	Quad Disconnect Timer, Type 10	109.00
9191	Station Ringdown Activation Module	175.00
9192	System Activation Module (requires sleeve-lead control)	170.00
9193	System Activation Module (for manual activation from dedicated telephone)	149.00
9194	Conference Amplifier Module	141.00
9195	Remote Access Conference Module (requires sleeve-lead control)	112.00
9196	System Activation Module for remote conference initiation or access (loop start)	207.00
9291	Station Ringdown Activation Module	193.00
9293	System Activation Module (for manual activation from dedicated telephone)	217.00
9294	Conference Amplifier Module	67.00
9296	System Activation and Remote Access Module	178.00

MFT-type modules and adapters

9604D	4W-4W DX-to-E&M Repeater (MFT-type module)	141.00
9608*	Program Amplifier (MFT-type module)	217.00
9608A*	Program Distribution Amplifier (MFT-type module)	271.00
9610	Type 10 to MFT Card Adapter	22.00
9662	4W-4W SF-to-E&M Repeater with presc. gain and SMAS wiring, accepts plug-on rcv. and xmt. eq. (MFT-type module)	253.00

telephone sets and loudspeakers

9702	Tel Set, 4Wire, single-line, desk, black, six-conductor line cord, rotary dial	65.00
9702A	Tel Set, 4Wire, single-line, desk, black, 10-conductor line cord, rotary dial, PTT (push-to-talk) handset	85.00
9704	Tel Set, 4Wire, single-line, desk, black, six-conductor line cord, DTMF, PTT (internal)	104.00
9706	Tel Set, 4Wire, single-line, wall, black, rotary dial	69.00
9706A	Tel Set, 4Wire, single-line, wall, black, rotary dial, PTT handset, no ringer	87.00
9707	Tel Set, 2Wire/4Wire, five-line, beige, rotary dial	149.00
9708	Tel Set, 2Wire/4Wire, five-line, beige, DTMF	175.00
9710	Tel Set, 2Wire/4Wire, nine-line, desk, warm white, rotary dial	189.00
9711	Tel Set, 2Wire/4Wire, nine-line, desk, warm white, DTMF	199.00
9719	Handset, push-to-talk, black	36.00
9791	Loudspeaker (106B-type)	219.00
9792	Loudspeaker Mounting Panel, 19-inch, with single loudspeaker	259.00

* Not a standard stock item. May require extended delivery interval.

card extenders and adapters

9801	Card Extender for Type 10 modules, with jacks	151.00
9802	Card Extender for Type 10 modules, without jacks	53.00
9803U	Card Extender for Type 12 Universal modules, with jacks and test points	179.00
9805	Card Extender for Type 15 modules, with jacks	265.00
9807	Card Extender for Type 16 modules, with jacks and test points	265.00
9809	Card Extender for Type 10 modules, 24X-System modules, and 4462/62A modules, with facility-side opening jack and monitoring jack	151.00
9844	Type 10 to 829-Type Mounting Adapter with integral power supply (24Vac input, -48Vdc 120mA output)	18.00
9844A	Type 10 to 829-Type Mounting Adapter for use with Tellabs 4416/A/B DST's (WEC0 829B/C), 4417/A/B DST's (WEC0 829A), 4418/A DST's (WEC0 829B/C)	14.00

subassemblies

9901	Pulse Corrector (8 to 14pps input)	39.00
9903	Ringling Interrupter (2 seconds on, 4 seconds off)	36.00
9904	Tone Disabler subassembly (for Issue 2 or later 6921X Echo Canceller modules)	53.00
9906	Reverse Battery Adapter subassembly	47.00
9908A	Active Slope Equalizer subassembly (with prescription alignment capability)	25.00
9908B	Active Prescription Equalizer subassembly (WEC0 309B-equivalent)	25.00
9914	Tone-Activated Loopback subassembly (optional, mounts on 3404 module)	39.00
9921	SF Tone Bypass subassembly (for 6921A, B, H)	112.00
9921L	Low-Profile SF Tone Bypass subassembly (for 6921AL, BL)	125.00
9924	2400/2600Hz International Line Signaling Tone Disabler subassembly	135.00
9926	CO Equalizer subassembly, 0 to 150 ft.	25.00
9927	CO Equalizer subassembly, 151 to 450 ft.	25.00
9928	CO Equalizer subassembly, 451 to 750 ft.	25.00
9930	Precision Balance Network subassembly, H88 cable (19 to 26 gauge)	49.00
9932	Precision Balance Network subassembly, nonloaded cable or Type 500 tel set interface	49.00
9933	Precision Balance Network subassembly, direct Type 500 tel set interface	26.00
9952A	Low-Pass Band Splitting Filter subassembly (400Hz LPF, for 4251/51A or 4252/52A)	26.00
9952B	Low-Pass Band Splitting Filter subassembly (1300Hz LPF, for 4251/51A or 4252/52A)	26.00
9952C	Low-Pass Band Splitting Filter subassembly (1370Hz LPF, for 4251/51A or 4252/52A)	26.00
9952D	High-Pass Band Splitting Filter subassembly (1650Hz HPF, for 4251/51A or 4252/52A)	26.00
9952E	High-Pass Band Splitting Filter subassembly (1925Hz HPF, for 4251/51A or 4252/52A)	26.00
9952G	High-Pass Band Splitting Filter subassembly (1300Hz HPF, for 4251/51A or 4252/52A)	26.00
9952H	High-Pass Band Splitting Filter subassembly (1810Hz HPF, for 4251/51A or 4252/52A)	26.00
9952J	Low-Pass Band Splitting Filter subassembly (1460Hz LPF, for 4251/51A or 4252/52A)	26.00
9953A	Isolation Filter subassembly	50.00
9953B	Isolation Filter subassembly	75.00
9961A	FXS-to-E&M Signaling Converter subassembly (for 6461R, 6462A, 6971, and 6972)	94.00
9961BR	FXO-to-E&M Signaling Converter subassembly (for 6461R, 6462A, 6971, and 6972)	89.00
9961C	AC Ringdown-to-E&M Signaling Converter subassembly (for 6461R, 6462A, 6971, and 6972)	89.00
9961D	DX-to-E&M (DX1/DX2) Signaling Converter subassembly (for 6461R, 6462A, 6971, and 6972)	99.00
9961E	Pulse-Link Repeater subassembly (for 6461R)	65.00
9990	Key System Line Circuit Module	90.00

auxiliary equipment

80-0358	Rack Adapter (one pair), converts Type 12 Mounting Shelves from 19" to 23" mount, occupies 2 mounting spaces	9.00
80-0359	Rack Adapter (one pair), converts Type 15 Mounting Shelves from 19" to 23" mount, occupies 3 mounting spaces	13.00
80-0360	Rack Adapter (one pair), converts Type 16 Mounting Shelves from 19" to 23" mount, occupies 4 mounting spaces	15.00
80-0357	Rack Adapter (one pair), converts Type 10 Mounting Shelves from 19" to 23" mount, occupies 3.5 mounting spaces	14.00
10-1211	Extender bracket for 1925 (6A) Apparatus Case, adapts case for internal 19" mounting shelves	34.00

10-1212	Extender Bracket for 1926 (6A) Apparatus Case, adapts case for internal 19" mounting shelves	34.00
14-9002	Mounting Bars, 19-inch pair	22.00
14-9003	Mounting Bars, 23-inch pair	25.00
14-9007	Rack Adapter (one pair), 19" to 23", occupies one mounting space	11.00
30-7006	Ballast Lamp (for 8271 and 8272)	6.00
60-0035	Type 66 Quick-Connect Terminal Block, 25-pair (includes wiring)	22.00
60-0065	Fuse, Bussman GMT-type, 1.33 ampere	0.80
60-0179	Fuse, Bussman GMT-type, 0.25 ampere (other values available on request)	0.80
60-0338	Type 66 Quick-Connect Terminal Block, split, 50-pair (includes wiring)	22.00
64-0002	Ballast Lamp (for 8206-19 and 8206-23)	2.00
79-0087	Patch Cord, 310-type male to bantam male (6-foot cord)	20.00
80-0057	Jack Adapter, 310-type to bantam (18-inch cord)	31.00
80-0062	Wall-Mounting Bracket (for 8001, 8001A, 8005, 8050, 8101, 8102, and 8108)	12.00
80-0065	Connectorized Cross-Connect Subscriber Block for 291 System	95.00
80-0066	Connectorized Cross-Connect Switch Block for 291 System	107.00
80-0088	Connectorized Cross-Connect Terminal Block Assembly for 24XA and 24XB Mounting Assemblies (242, 243, and 244 Systems)	138.00
80-0156	Attendant Console for 281B Teleconferencing System	550.00
80-0157	Attendant Console for 281A Teleconferencing System	380.00

Special Services Products by Functional Description

NOTE: This section does not include all products listed in sections 1 through 9 of this price list.

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terminating sets	page 59
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adapters

9610	Type 10 to MFT Card Adapter	22.00
9844A	Type 10 to 829-Type Mounting Adapter for use with Tellabs 4416/A/B DST's (WECO 829B/C), 4417/A/B DST's (WECO 829A), and 4418/A DST's (WECO 829B/C)	14.00
10-1211	Extender bracket for 1925 (6A) Apparatus Case, adapts case for internal 19" mounting shelves	34.00
10-1212	Extender Bracket for 1926 (6A) Apparatus Case, adapts case for internal 19" mounting shelves	34.00
10-0796	Rack Adapter (one pair), converts Type 12 Mounting Shelves from 19" to 23" mount, occupies 2 mounting spaces	9.00
10-0797	Rack Adapter (one pair), converts Type 15 Mounting Shelves from 19" to 23" mount, occupies 3 mounting spaces	13.00
10-0798	Rack Adapter (one pair), converts Type 16 Mounting Shelves from 19" to 23" mount, occupies 4 mounting spaces	15.00
10-0799	Rack Adapter (one pair), converts Type 10 Mounting Shelves from 19" to 23" mount, occupies 3.5 mounting spaces	14.00
14-9002	Mounting Bars, 19-inch pair	22.00
14-9003	Mounting Bars, 23-inch pair	25.00
14-9007	Rack Adapter (one pair), 19" to 23", occupies one mounting space	11.00
79-0087	Patch Cord, 310-type male to bantam male (6-foot cord)	20.00
80-0057	Jack Adapter, 310-type to bantam (18-inch cord)	31.00

alerting system, group or community, one-way

see section 2

apparatus cases and accessories

NOTE: The following apparatus cases accommodate Tellabs Type 10 modules.		
1911	Apparatus Case, single-module, wall or desktop mount	19.00
1912	Apparatus Case, single-module, wall or desktop mount, with rect. and voltage doubler	43.00
1912A	1912 Apparatus Case wired for one 4445 or 4449 Data Bridge module	61.00
1912 L1	Terminal Block, 6-position	4.00
1912 L2	Gas Tubes, two each	9.00
1912 L4	Transformer, 117Vac input, 26Vac 7.5A output (same as model 8015)	9.00
1913	Apparatus Case, two-module, with rectifier and voltage doubler, wall or desktop mount	65.00
1913 L4	Transformer, 117Vac input, 26Vac 7.5A output (same as model 8015)	9.00
1913NR	Apparatus Case, two-module, wall or desktop mount	45.00
1914	Apparatus Case, four-module, wall or desktop mount	128.00
1914P	Apparatus Case, four-module, with rectifier and power supply (same as model 8016), wall or desktop mount	154.00
1914PR	Apparatus Case, four-module, with rectifier, power supply (same as model 8016), and ringing, wall or desktop mount	178.00
1918	Type 14A-equivalent Apparatus Case, plastic, with integral 6-position shelf and translucent cover, wall mounted, includes two 12-pair Type 66 blocks	120.00
1919	Type 15A-equivalent Apparatus Case, plastic, with integral 12-position shelf and translucent cover, wall mounted, includes one 50-pair Type 66 block	180.00
1921	Type 15A-equivalent Apparatus Case, wall mounted (includes one 50-pair Type 66 block)	65.00
1922	Type 16C-equivalent Apparatus Case, wall mounted, with translucent cover (Issue 2)	154.00

1925	Type 6A-equivalent Apparatus Case, floor mounted, with translucent cover, 23-inch internal mounting	432.00
	NOTE: For 19-inch internal mounting in the 1925 Apparatus Case, use the 10-1211 extender bracket.	
1926	Type 6AW-equivalent Apparatus Case, floor mounted, with translucent cover, 23-inch internal mounting	569.00
	NOTE: For 19-inch internal mounting in the 1926 Apparatus Case, use the 10-1212 extender bracket.	
10-1211	Extender bracket for 1925 (6A) Apparatus Case, adapts case for 19" internal mounting shelves	34.00
10-1212	Extender bracket for 1926 (6AW) Apparatus Case, adapts case for 19" internal mounting shelves	49.00
60-0035	Type 66 Quick-Connect Terminal Block, 25-pair (includes wiring)	22.00
60-0338	Type 66 Quick-Connect Terminal Block, split, 50-pair (includes wiring)	22.00

AUTOVON exchange, programmable (PAX), 334

see section 2

card extenders

9801	Card Extender for Type 10 modules, with jacks	151.00
9802	Card Extender for Type 10 modules, without jacks	53.00
9803U	Card Extender for Type 12 Universal modules, with jacks and test points	179.00
9805	Card Extender for Type 15 modules, with jacks	265.00
9807	Card Extender for Type 16 modules, with jacks and test points	265.00
9809	Card Extender for Type 10 modules, specially designed for 24X-System modules and 4462/62A modules, with facility opening jack	151.00

channel service unit, T1, 411

see section 2

compandor, digital, 24-channel, 454

see section 2

conference systems, meet-me

see section 2

conference/alerting system, two-way, 30-station maximum, 291

see section 2

**conference/alerting system, two-way, FCC-registered,
30-station maximum, 291R**

see section 2

**conference/alerting system, two-way, FCC-registered,
60-station maximum, 292R**

see section 2

converters, miscellaneous

6006	Signaling Converter, E&M to ringing (D1B), SG-to-E&M (D0B), or SG-lead-to-ringing (10D)	119.00
6007	Dual Ground-Start-to-Loop-Start Converter module	99.00
6201	Two-Way Dial Loop-to-E&M Converter with rev. batt.	169.00
6212	Quad Type I-to-Type II E&M Converter (Type I; E-lead in, M-lead out)	171.00
6251	SSN Trunk Module (GS-to-E&M converter with delay dial and rev. batt.)	155.00
9011	Pulse/Trunk Link Repeater and Dual Pulse Corrector	109.00

cross-connect systems, T-Carrier, 53X**see section 2****data bridging equipment, analog****stand-alone modules, Type 10**

4445	4Wire/5Way Active Data Bridge (one common and four multiple ports)	122.00
4445A	4Wire/5Way Active Data Bridge (individual multiple-port level control)	245.00
4449	4Wire/9Way Active Data Bridge (one common and eight multiple ports)	143.00

prewired assemblies

1912A	1912 Apparatus Case wired for one 4445 or one 4449 Data Bridge module	61.00
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prewired systems

242	2Wire Distributive Data Bridge (DDB) System	see section 2
244	4Wire Distributive Data Bridge (DDB) System	see section 2
244	4Wire Terminate-and-Leave Distributive Data Bridge (DDB) System	see section 2

diagnostic modules for 24X Systems

3228	Data Set Transmit/Receive module	218.00
4050*	Cable Diagnostic Module for 24X Mounting Assembly	95.00
4458	DDB DTMF Diagnostic Module for terminate-and-leave 4wire data bridge (244)	265.00
4459	DDB Loopback/Facility Test Module for 4wire data bridge (244)	253.00

optional equipment for 24X Systems

80-0088	Terminal Block Assembly for 24XA and 24XB Mounting Assemblies (242, 243, and 244 Systems)	138.00
50-4006	Cable Assembly, test, for use of 4458 or 4459 module in 24XA and 24XB Mounting Assemblies (standard on 24XA L1 and 24XB L1 Assemblies)	14.00

data bridge system, 2wire, distributive, 242**see section 2****data bridge system, 4wire, distributive, 244****see section 2****data bridge system, 4wire, distributive, terminate-and-leave, 244****see section 2****data signaling system, low-speed, McCulloh-loop-type, 243****see section 2****data station termination equipment****Type 10 modules****4Wire-to-4Wire**

4412C	4W-4W DST with rcv. slope/bump eql., xmt. slope pre-eql., 310-type jks. and 2-tone, 11-freq. lpbk. (829B/C equiv.)	196.00
4412D	4W-4W DST with rcv. slope/bump eql., xmt. slope pre-eql., 310-type jks., and single-tone, 11-freq. lpbk. (timeout only) (829B/C equiv.)	196.00
4417	4W-4W DST with passive presc. loss, seal. curr., and 2-tone lpbk. w/20-min. timeout, no jks. (829A equiv.) (Issue 2)	113.00
4417A	4W-4W DST with passive presc. loss, bantam jks., seal. curr., and 2-tone lpbk. w/20-min. timeout (829A equiv.) (Issue 2)	120.00
4417B	4W-4W DST with passive presc. loss, bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout (829A equiv.) (Issue 2)	120.00
4418	4W-4W DST with presc. gain, rcv. 309B-equiv. eql., seal. curr., and 2-tone lpbk. w/20-min. timeout, no jacks, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	132.00
4418A	4W-4W DST with presc. gain, rcv. 309B-equiv. eql., bantam jks., seal. curr., and 2-tone lpbk. w/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	135.00

4420B	4W-4W DST with presc. gain, rcv. slope/bump eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	132.00
4Wire-to-4Wire or 4Wire-to-2Wire (switchable)		
4412U	4W-4W/2W DST with presc. gain, rcv. slope eql., bantam jks., seal. curr., and 2-tone lpbk. w/timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	151.00
4416A	4W-4W/2W DST with presc. gain, rcv. 309B-equiv. eql., bantam jks., seal. curr. and 2-tone lpbk. w/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	147.00
4416B	4W-4W/2W DST with presc. gain, rcv. 309B-equiv. eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.) (Issue 2)	147.00
4419B	4W-4W/2W DST with presc. gain, presc. rcv. slope/bump eql., bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	147.00
4419C	4W-4W/2W DST with presc. gain, presc. rcv. slope/bump eql., bantam jks., seal. curr., PWC (GTE) pinouts, and 2-tone lpbk. with 4/20-min. timeout, accepts plug-on xmt. pre-eql. (829B/C equiv.)	147.00

adapters

9610	Type 10 to MFT Card Adapter	22.00
9844A	Type 10 to 829-Type Mounting Adapter for use with Tellabs 4416/A/B DST's (WECO 829B/C), 4417/A/B DST's (WECO 829A), 4418/A DST's (WECO 829B/C)	14.00

mountings

1009A	1009 Mounting Shelf, 9-position, wired for eight 4412X DST modules; includes power and fusing, 19-inch or 23-inch relay-rack mounting	408.00
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prewired systems

262U	Universal Network Channel Terminating Systems, from 1 to 84 circuits	see section 2
263A	Data Station Termination System, single-circuit	see section 2
263E	Data Station Termination System, single-circuit	see section 2

self-contained systems

263D	Data Station Termination System, single-circuit	see section 2
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dial long line modules (DLL/LSR)**single-function**

loop start only		
7001	Dial Long Line, loop start only	101.00
7001A	Dial Long Line, loop start only, with NCTE pinouts	90.00
7011A	OPX Range Extender with reverse battery	103.00
loop start or ground start		
7002	Dial Long Line, loop start or ground start	133.00
7002A	Dial Long Line, loop start or ground start, with NCTE pinouts	101.00
7503	Dial Long Line, loop start or ground start (rev. batt. option provided via 9906 subassembly) (Type 12)	133.00
combined-function		
7525	Test-Through Dial Long Line with switched-gain repeater (Type 12)	165.00

optional subassemblies

9901	Pulse Corrector subassembly (8 to 14pps input)	39.00
9906	Reverse Battery Adapter subassembly	47.00

prewired systems

211	OPX Range Extender System	see section 2
262	Network Channel Terminating Equipment/Data Station Termination (NCTE/DST) System	see section 2

duplex (DX) signaling modules, DX-to-E&M**2Wire-to-2Wire**

6001	DX-to-E&M (DX1/DX2) Signaling Module, no repeat coil	89.00
6002	2W-2W (DX1/DX2) Signaling Module with repeat coil	99.00
6041	2W-2W DX-to-E&M (DX1) Network Channel Terminating Module with repeat coil	79.00

4Wire-to-2Wire

6042	4W-2W DX-to-E&M Term. Repeater with rcv. slope eql. and 310-type jks.	122.00
6042A	4W-2W DX-to-E&M Term. Repeater with rcv. slope eql., 310-type jks., and 2-tone lpbk. w/timeout	156.00

4Wire-to-4Wire

6044	4W-4W DX-to-E&M Term. Repeater with rcv. slope eql. and 310-type jks.	120.00
6044A	4W-4W DX-to-E&M Term. Repeater with rcv. slope eql., 310-type jks., and 2-tone lpbk. w/timeout	170.00
6166	4W-4W DX-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	151.00
6166A	4W-4W DX-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	193.00
9604D	4W-4W DX-to-E&M Repeater (MFT-type module)	141.00

4Wire-to-4Wire or 4Wire-to-2wire

6043	4W-4W/2W DX-to-E&M Term. Repeater with presc. gain, presc. rcv. slope eql., and bantam jks. (Iss. 2)	139.00
6043A	4W-4W/2W DX-to-E&M Term. Repeater with presc. gain, presc. rcv. slope eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout (Iss. 3)	175.00
6168	4W-4W/2W DX-to-E&M Term. Repeater with presc. gain, presc. rcv. 309B-equiv. eql., and bantam jks., no lpbk.	149.00
6168A	4W-4W/2W DX-to-E&M Term. Repeater with presc. gain, presc. rcv. and xmt. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	179.00
6461R	4W-4W/2W Common Signaling Module, passive (used with 9961X Signaling Converter subassemblies) (Type 15)	149.00
9961D	DX-to-E&M (DX1/DX2) Signaling Converter subassembly (for 6461R)	99.00

duplex (DX) signaling prewired systems

262	Network Channel Terminating Equipment/Data Station Termination (NCTE/DST) System	see section 2
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echo cancellation equipment for analog voice circuits

echo canceller modules

6919A	Analog Echo Canceller Module (Type 16)	279.00
6919B	Analog Echo Canceller Module with Pads (Type 16)	340.00
6919C	Analog Echo Canceller Module with Pads and SF Bypass (Type 16)	425.00
6919H	Analog Long-End-Path Echo Canceller Module with Pads (Type 16)	365.00

subassemblies

9904	Tone Disabler subassembly (for Issue 2 or later 6919X Echo Canceller modules)	53.00
9921	SF Tone Bypass subassembly (for 6919A, B, H)	112.00
9921L	Low-Profile SF Tone Bypass subassembly (for 6919AL, BL)	125.00
9924	2400/2600Hz International Line Signaling Tone Disabler subassembly (for 6919A, B, H)	135.00

mountings

1624G-19	Double-Density Type 16 Mounting Shelf, 19-inch, wired for Echo Cancellers, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	260.00
1624G-23	Double-Density Type 16 Mounting Shelf, 23-inch, wired for Echo Cancellers, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	260.00

echo canceller system, digital, 24-channel, 253

see section 2

echo canceller system, digital, 30 or 31-channel, 252

see section 2

equalizers

4041	Amplitude/Delay (conditioning) Equalizer with 310-type jks.	505.00
9908A	Active Slope Equalizer subassembly (prescription alignment capability)	25.00
9908B	Active Prescription Equalizer subassembly (WECO 309B-equivalent)	25.00

line amplifiers and repeaters**2Wire-to-2wire**

7201	2W-2W Switched-Gain Repeater.	120.00
7206	2W-2W Switched-Gain Compression Amplifier	169.00
7206A	2W-2W Switched-Gain Compression Amplifier with fixed -9dB compression	169.00
7206B	2W-2W Switched-Gain Compression Amplifier with fixed -13dB compression	169.00

4Wire-to-2wire

4024B	4W-2W Term. Repeater with presc. gain, presc. rcv. slope eql., bantam jks., SX/AB switch, and NCTE pinouts, accepts plug-on PBN	144.00
4024C	4W-2W Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., SX/AB switch, and NCTE pinouts	157.00
4024CL	4W-2W Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., SX/AB switch, and NCTE pinouts	159.00
4024E	4W-2W Term. Repeater with presc. gain, presc. rcv. slope eql., bantam jks., SX/AB switch, and NCTE pinouts, accepts plug-on PBN	126.00

4Wire-to-4Wire

4001	4W-4W Intermed. Repeater with rcv. slope/bump eql., xmt. slope pre-eql., and 310-type jks.	109.00
4001A	4W-4W Intermed. Repeater with rcv. and xmt. slope/bump eql. and 310-type jks.	149.00
4001C	4W-4W Intermed. Repeater with presc. gain, presc. rcv. and xmt. slope eql., bantam jks., and seal. curr. on fac. and sta. sides	127.00
4001F	4W-4W Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and seal. curr. on fac. side	127.00
4003C	4W-4W Int. Repeater with presc. gain, presc. rcv. and xmt. slope eql., bantam jks., and 2-tone 11-freq. lpbk.	161.00
4502*	4W-4W Intermed. Repeater with rcv. slope/bump eql., xmt. slope pre-eql., Type 12	192.00
4502U*	4W-4W Intermed. Repeater with rcv. slope/bump eql., xmt. slope pre-eql., Type 12 Universal	192.00
4744	4W-4W Intermed. Repeater (line amp) with rcv. and xmt. slope/bump eql. (Type 15, used only with 6900-family modules in 269 Assemblies)	160.00

subassemblies

9930	Precision Balance Network subassembly, H88 cable (19 to 26 gauge)	49.00
9932	Precision Balance Network subassembly, nonloaded cable or Type 500 tel set interface ...	49.00
9933	Precision Balance Network subassembly, direct Type 500 tel set interface	39.00

loudspeakers

9791	Loudspeaker (106B type)	219.00
9792	Loudspeaker Mounting Panel, 19-inch, with single 9791 Loudspeaker	259.00

meet-me conference systems**see section 2****modules, miscellaneous**

4000A	Blank Type 10 Module.	19.00
4400	4Wire Bypass Module (Type 10).	39.00
4740A	4Wire Bypass Module, (Type 15) (cannot be used with associated echo canceller)	51.00
4910	4Wire Bypass Module (Type 16).	39.00
6073	DTMF/Dial Decoder (1, 2, or 3-digit with 12 latched or momentary outputs)	291.00
6900A	Blank Module (Type 16).	25.00
9001	Relay Module, 24Vdc, four relays with 4-pole form-C contacts, Type 10	51.00
9002	Relay Module, 48Vdc, four relays with 4-pole form-C contacts, Type 10	51.00
9005	Quad Loop Current Detector Module with battery-feed polarity option, Type 10	157.00
9006	Multiple- (six-) Circuit Transfer Module, used for PBX bypass, GS-to-LS converter included, Type 10	237.00

* Not a standard stock item. May require extended delivery interval.

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9026	Jackfield Module (eight 310-type jks.), Type 10	69.00
9091	Matrix Module (minimum modification charge \$50.00), Type 10	49.00
9117	Voice-Operated Switch module (VOX)	109.00
9131	Universal Timer, Type 10	69.00
9134	Quad Disconnect Timer	109.00

mounting shelves, Types 10, 12, 15, and 16**Type 10, KTU app. case mounting**

1002	Type 10 Mounting Shelf, 2-position, KTU app. case mounting	31.00
1004	Type 10 Mounting Shelf, 4-position, KTU app. case mounting	45.00
1006	Type 10 Mounting Shelf, 6-position, KTU app. case mounting	60.00
1009	Type 10 Mounting Shelf, 9-position, KTU app. case mounting	84.00

Type 10, rack mounting

1011	Type 10 Mounting Shelf, 19-inch, 11-position, 6" high	100.00
1011F*	Type 10 Mounting Shelf, flush mount, 19-inch, 11-position, 6" high	123.00
1011U	Type 10 Universal Mounting Shelf, 19-inch, 11-position, 6" high	168.00
1011UC	Type 10 Universal Connectorized Mounting Shelf, 19-inch, 11-position, 3 connectors, 6" high	209.00
1012	Type 10 Mounting Shelf, 19-inch, 12-position, 6" high	100.00
1012F*	Type 10 Mounting Shelf, flush mount, 19-inch, 12-position, 6" high	132.00
1012U	Type 10 Universal Mounting Shelf, 19-inch, 12-position, 6" high	179.00
1012UC	Type 10 Universal Connectorized Mounting Shelf, 19-inch, 12-position, 3 connectors, 6" high	219.00
1013	Type 10 Mounting Shelf, 23-inch, 13-position, 6" high	120.00
1013U	Type 10 Universal Mounting Shelf, 23-inch, 13-position, 6" high	179.00
1013UC	Type 10 Universal Connectorized Mounting Shelf, 23-inch, 13-position, 3 connectors, 6" high	219.00
1014	Type 10 Mounting Shelf, 23-inch, 14-position, 6" high	120.00
1014U	Type 10 Universal Mounting Shelf, 23-inch, 14-position, 6" high	189.00
1014UC	Type 10 Universal Connectorized Mounting Shelf, 23-inch, 14-position, 3 connectors, 6" high	230.00
1053	Type 10 Mounting Shelf, 19-inch, 3-position, 1-3/4" high	122.00

Type 12, rack mounting

1212-19	Type 12 Mounting Shelf, 19-inch, 12-position, 3-1/2" high	79.00
1212-23	Type 12 Mounting Shelf, 23-inch, 12-position, 3-1/2" high	87.00

Type 15, rack mounting

1512-19	Type 15 Mounting Shelf, 19-inch, 12-position, 5-1/4" high	98.00
1512-23	Type 15 Mounting Shelf, 23-inch, 12-position, 5-1/4" high	103.00

Type 16, rack mounting

1612-19	Type 16 Mounting Shelf, 19-inch, 12-position, 7" high	92.00
1612-23	Type 16 Mounting Shelf, 23-inch, 12-position, 7" high	101.00
1612A-19	Type 16 Mounting Shelf, 19-inch, 12-position, SMAS-strapped for 6900-family modules, 7" high	122.00
1612A-23	Type 16 Mounting Shelf, 23-inch, 12-position, SMAS-strapped for 6900-family modules, 7" high	123.00
1612B-19	Type 16 Mounting Shelf, 19-inch, 12-position, SMAS-strapped for 6900-family modules with common bus for batt., gnd., ring gen., SF osc., and CGA, 7" high	137.00
1612B-23	Type 16 Mounting Shelf, 23-inch, 12-position, SMAS-strapped for 6900-family modules with common bus for batt., gnd., ring gen., SF osc., and CGA, 7" high	137.00
1624-19	Double-Density Type 16 Mounting Shelf, 19-inch, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	132.00
1624-23	Double-Density Type 16 Mounting Shelf, 23-inch, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	135.00
1624C-19	Two Type 16 Mounting Shelves with common connectorized backplate, wired for Type I E&M interface, 19-inch, 14" high	498.00
1624C-23	Two Type 16 Mounting Shelves with common connectorized backplate, wired for Type I E&M interface, 23-inch, 14" high	500.00
1624D-19	Two Type 16 Mounting Shelves with common connectorized backplate, wired for Type II E&M interface, 19-inch, 14" high	498.00

1624D-23	Two Type 16 Mounting Shelves with common connectorized backplate, wired for Type II E&M interface, 23-inch, 14" high	500.00
1624F-19	Double-Density Type 16 Mounting Shelf, 19-inch, with connectorized backplane, wired for Type I and Type II E&M interface, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	375.00
1624F-23	Double-Density Type 16 Mounting Shelf, 23-inch, with connectorized backplane, wired for Type I and Type II E&M interface, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	379.00
1624G-19	Double-Density Type 16 Mounting Shelf, 19-inch, wired for Echo Cancellers, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	260.00
1624G-23	Double-Density Type 16 Mounting Shelf, 23-inch, wired for Echo Cancellers, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	260.00

optional equipment for mounting shelves

14-9002	KTU Mounting Bars, 19-inch pair	22.00
14-9003	KTU Mounting Bars, 23-inch	25.00
14-9007	Rack Adapter (one pair), 19" to 23", occupies one mounting space	11.00
80-0357	Rack Adapter (one pair), converts Type 12 Mounting Shelves from 19" to 23" mount, occupies two mounting spaces	9.00
80-0358	Rack Adapter (one pair), converts Type 15 Mounting Shelves from 19" to 23" mount, occupies three mounting spaces	13.00
80-0359	Rack Adapter (one pair), converts Type 16 Mounting Shelves from 19" to 23" mount, occupies four mounting spaces	15.00
80-0360	Rack Adapter (one pair), converts Type 10 Mounting Shelves from 19" to 23" mount, occupies 3.5 mounting spaces	14.00

network channel terminating equipment/data station termination (NCTE/DST) systems

262	Universal Network Channel Terminating Equipment/Data Station Termination (NCTE/DST) System	see section 2
266	Network Interface Systems	see section 2

OPX range extender system, 211**see section 2****pad/transformers**

4401	4Wire Pad Module with 310-type jks. and no transformers	55.00
4402	4Wire Pad/Transformer Module, facility, with 310-type jks.	70.00
4402S	4Wire Pad/Transformer Module, facility, with seal. curr. and 310-type jks.	70.00
4403	4Wire Pad/Transformer Module, office, with 310-type jks.	70.00
4404	4Wire Pad/Transformer Module, station, with 310-type jks.	70.00
4404S	4Wire Pad/Transformer Module, station, with seal. curr. and 310-type jks.	70.00
4410	Prescription 4Wire Pad/Transformer module with bantam jks.	65.00
4410S	Prescription 4Wire Pad/Transformer module with seal. curr. and bantam jks.	70.00
4411A	4Wire Pad/Transformer Module with 2-tone (w/timeout) or reverse seal. curr. lpbk	136.00
4417	4W-4W DST with passive presc. loss, seal. curr., and 2-tone lpbk. w/20-min. timeout, no jks. (829A equiv.) (Issue 2)	113.00
4417A	4W-4W DST with passive presc. loss, bantam jks., seal. curr., and 2-tone lpbk. w/20-min. timeout (829A equiv.) (Issue 2)	120.00
4417B	4W-4W DST with passive presc. loss, bantam jks., seal. curr., and 2-tone lpbk. with 4/20-min. timeout (829A equiv.) (Issue 2)	120.00
4542	4Wire Pad/Transformer Module (Type 12)	99.00
4901	4Wire Pad module (FMB) (Type 16)	95.00
4902	4Wire Pad/Transformer (FMC) (Type 16)	109.00
6461R	4W-4W/2W Common Signaling Module, passive (used with 9961X Signaling Converter subassemblies) (Type 15)	149.00

PAX system, 334**see section 2**

power supplies

24Vac output

8015	Transformer, 117Vac, 26Vac 7.5VA output, wall-socket plug-in	9.00
8018	Transformer, 117Vac 60Hz input, 26Vac 10VA output, with 6ft. power cord, wall-socket plug-in	9.00

24Vdc output

8011	Power Supply, 117Vac 60Hz input, 24Vdc 0.5A output, wall-socket plug-in	53.00
8013	Power Supply, 117Vac 60Hz input, 24Vdc 0.2A and 10Vac 0.1A outputs, wall-socket plug-in	43.00

24 or 48Vdc output

8001	Power Supply, 117Vac 60Hz input, switchable 24/48Vdc 1A output, 8-foot input cord, KTU mount	97.00
8001A	Power Supply, 117Vac 60Hz input, switchable 24/48Vdc 1A output, 18-inch input cord, KTU mount	95.00
8005	Power Supply, 230Vac 50/60Hz input, switchable 24/48Vdc 1A output, KTU mount	101.00
8035	Power Supply, 117Vac 50/60Hz input, switchable 24Vdc 4.0A or 48Vdc 2.0A output, Type 10 or KTU mount, KTU mounting hardware included	206.00

48Vdc output

8002	Power Supply, 117Vac 60Hz input, 48Vdc 2A output, wall mounted	138.00
8003	Power Supply, 117Vac 60Hz input, 48Vdc 2A output, 19/23-inch rack mounted	173.00
8007	Power Supply, 117/230Vac 60Hz input	353.00
8012	Power Supply, 117Vac 60Hz input, 48Vdc 0.25A output, wall-socket plug-in	43.00
8016	Power Supply, 117Vac, 60Hz input, 48Vdc 0.55A unfiltered output, wall-socket plug-in (for use only in 267, 1914P and 1914PR Assemblies)	26.00
8017	Power Supply, 117Vac 60Hz input, 48Vdc 100mA, regulated and filtered output, wall-socket plug-in	39.00
8020	Power Supply, 117Vac 50/60Hz input, 48Vdc 1.25A output, Type 10 or KTU mount, KTU mounting hardware included	120.00
8021	Power Supply, 117/230Vac 60Hz, 48Vdc 2.0A output, Type 10/KTU mounting	160.00

power and ringing supplies

24 or 48Vdc power output

8050	Power and Ringing Supply, 117Vac 60Hz input, 24Vdc 2.5A or 48Vdc 1.25A power output, 96Vac 20/30Hz 12W ringing output, Type 10 (two positions) or KTU mount, KTU hardware included	242.00
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precision balance networks (PBN's)

9930	Precision Balance Network subassembly, H88 cable (19 to 26 gauge)	49.00
9932	Precision Balance Network subassembly, nonloaded cable or Type 500 tel set interface	49.00
9933	Precision Balance Network subassembly, direct Type 500 tel set interface	39.00

program equipment

amplifiers

4008	Program Amplifier with 5/8kHz and 15kHz eq. and 310-type jks.	202.00
4012	Program Distribution Amplifier, 2-port, with noise threshold ckt., individual-port level control, and 310-type jks.	133.00
4018	Program Distribution Amplifier, 8-port, with noise threshold ckt., 600-ohm output impedance, and 310-type jks.	150.00
9608	Program Amplifier (MFT-type module)	217.00
9608A	Program Distribution Amplifier (MFT-type module)	271.00

wideband repeat coil

4425	Wideband Repeat Coil, dual	85.00
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prewired system

248	Program Transmission System	see section 2
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programmable AUTOVON exchange (PAX) system, 334**see section 2****range extender system, OPX, 211****see section 2****repeat coils****voice-band**

4422	Repeat Coil, dual	55.00
4423	Repeat Coil, dual, protected	59.00

wideband

4425	Wideband Repeat Coil, dual	85.00
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repeaters**see line amplifiers and repeaters in this section****ringdown modules**

6003	2Wire Automatic Ringdown Module	90.00
6004	2Wire Automatic Ringdown Module with transfer relay	100.00
6105	Ringdown Signaling Converter	139.00
6106	Data Ringdown Signaling Converter	139.00
6131A	4W-4W/2W FXS-to-E&M Terminal Interface Module (rprr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (includes 6008A Signaling Converter subassembly)	232.00
6132A	2W/4W-4W FXS-to-E&M Terminal Interface Module (rprr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (includes 6008B Signaling Converter Subassembly)	232.00
6163	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	295.00
6163A	4W-2W, SF-to-FXS/ARD Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone lpbk. with 4/20-min. timeout	320.00
6925	4W-2W SF-to-Ringdown Signaling Set with 600/900-ohm term. set (FRD), accepts plug-on PBN (Type 16)	308.00
6945	4W-4W SF-to-Ringdown Signaling Set (FRD) (Type 16)	296.00

ringing supplies**24 or 48Vdc input**

8102	RinginG Generator, 24/48Vdc input, 85 to 135Vac 20Hz 5W output (can be equipped with 9903 Ringing Interrupter subassembly)	104.00
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48Vdc input

8103	RinginG Generator, 48Vdc input, 95Vac 20/30Hz 10W output, with ringinG interrupter, KTU mounting hardware included	110.00
8108	RinginG Generator, 48Vdc input, 90Vac 20Hz 20W output, KTU app. case mounting	296.00

117Vac input

8101	RinginG Generator, 117Vac 60Hz input, 80 to 110Vac 30Hz 5W output, KTU mount	61.00
8104	RinginG Generator, 117Vac 60Hz input, 80 to 110Vac 20/30Hz 10W output, KTU or Type 10 Shelf mounting	95.00
8111	RinginG Generator, 117Vac 60Hz input, 100Vac 30Hz 2W output wall-socket plug-in	80.00

subassembly

9903	RinginG Interrupter (2 seconds on, 4 seconds off)	36.00
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SST system, 334**see section 2****selective signaling terminal (SST) system, 334****see section 2****signaling converters****NOTE:** Most signaling converters require an external transmission module.**single-function**

6006	Signaling Converter: E&M-to-ringing (D1B), SG-to-E&M (D0B), or SG-lead-to-ringing (10D)	119.00
6007	Dual Ground-Start-to-Loop-Start Converter module	99.00
6101	SF Transceiver, 2600Hz	149.00
6102	E&M Signaling Converter	99.00
6103	FX Station-End Signaling converter	109.00
6104	FX Office-End Signaling Converter	109.00
6105	Ringdown Signaling Converter	139.00
6106	Data Ringdown Signaling Converter	139.00
6113	Loop-to-E&M Signaling Converter, FXS, LS/GS, and rev. batt.	98.00
6114	Loop-to-E&M Signaling Converter, FXO, LS/GS, and rev. batt.	98.00
6201	Two-Way Dial Loop-to-E&M Converter with rev. batt.	169.00
6212	Quad Type-I-to-Type-II E&M Converter (Type I: E-lead in and M-lead out)	171.00
6251	SSN Trunk Module (GS-to-E&M converter with delay-dial and rev. batt.)	141.00
9011	Pulse/Trunk Link Repeater and Dual Pulse Corrector, Type 10	109.00

combined-function

6131A	4W-4W/2W FXS-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (includes 6008A Signaling Converter subassembly)	232.00
6131B	4W-4W/2W FXO-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (includes 6008B Signaling Converter subassembly)	232.00
6461R	4W-4W/2W Common Signaling Module, passive (used with 9961X Signaling Converter subassemblies) (Type 15)	149.00
6131C	2W/4W-4W DX-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (includes 6008C Signaling Converter subassembly)	232.00
6131D	2W/4W-4W E&M-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., for carrier, radio, or multiplexer-type interfaces (includes 6008D Signaling Converter subassembly)	212.00
6132	2W/4W-4W Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (accepts 6008X series Signaling Converter subassemblies)	147.00
6132A	2W/4W-4W FXS-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (includes 6008A Signaling Converter subassembly)	232.00
6132B	2W/4W-4W FXO-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (includes 6008B Signaling Converter subassembly)	232.00
6132C	2W/4W-4W DX-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, or multiplexer-type interfaces (includes 6008C Signaling Converter subassembly)	232.00
6132D	2W/4W-4W E&M-to-E&M Terminal Interface Module (rptr.) with bantam jks., no eql., and NCTE pinouts, for carrier, radio, and multiplexer-type interfaces (includes 6008D Signaling Converter subassembly)	212.00

subassemblies for combined-function signaling converters

6008A	FXS-to-E&M Signaling Converter subassembly with LS/GS, rev. batt., and ARD (used on 613X Terminal Interface Modules)	85.00
6008B	FXO-to-E&M Signaling Converter subassembly with LS/GS and rev. batt. (used on 613X Terminal Interface Modules)	85.00
6008C	DX-to-E&M Signaling Converter subassembly (used on 613X Terminal Interface Modules)	85.00

6008D	E&M-to-E&M Signaling Converter subassembly (used on 613X Terminal Interface Modules)	65.00
9930	Precision Balance Network subassembly, H88 cable (19 to 26 gauge)	49.00
9932	Precision Balance Network subassembly, nonloaded cable or Type 500 tel set interface ...	49.00
9933	Precision Balance Network subassembly, direct Type 500 tel set interface	39.00
9961A	FXS-to-E&M Signaling Converter subassembly (for 6461R)	94.00
9961BR	FXO-to-E&M Signaling Converter subassembly (for 6461R)	89.00
9961C	AC-Ringdown-to-E&M Signaling Converter subassembly (for 6461R)	89.00
9961D	DX-to-E&M (DX1/DX2) Signaling Converter subassembly (for 6461R)	99.00
9961E	Pulse-Link Repeater subassembly (for 6461R)	65.00

prewired systems

266	Loop-to-E&M Signaling Assemblies	see section 2
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single-frequency (SF) signaling modules, combined-function**SF-to-E&M****4Wire-to-2Wire**

6122	4W-2W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., and bantam jks.	289.00
6122A	4W-2W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout	317.00
6162	4W-2W SF-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	289.00
6162A	4W-2W SF-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	317.00
6922	4W-2W SF-to-E&M Signaling Set with 600/900-ohm term. set (FAC/FAD), accepts plug-on PBN (Type 16)	267.00

4Wire-to-4Wire

6047	4W-4W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., and bantam jks.	253.00
6047A	4W-4W SF-to-E&M Term. Repeater with presc. gain, rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout	296.00
6161	4W-4W SF-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	253.00
6161A	4W-4W SF-to-E&M Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	296.00
6942	4W-4W SF-to-E&M Signaling Set (FUA/FBB or FUA/FBN) (Type 16)	212.00
6962	4W-4W SF-to-E&M Signaling Set with presc. gain and presc. rcv. slope eql., accepts plug-on xmt. eql. (Type 16)	204.00
9442	4W-4W SF-to-E&M Signaling Set (configured for Northern Telecom VF 300 Shelf)	233.00
9662	4W-4W SF-to-E&M Repeater with presc. gain and SMAS wiring, accepts plug-on rcv. and xmt. eql. (MFT-type module)	253.00

4Wire-to-4Wire or 4Wire-to-2Wire (switchable)

6048	4W-4W/2W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., and bantam jks.	295.00
6048A	4W-4W/2W SF-to-E&M Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout	326.00

SF-to-FXS**4Wire-to-2Wire**

6123	4W-2W SF-to-FXS Intermed. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., and bantam jks., accepts plug-on PBN	295.00
6123A	4W-2W SF-to-FXS Intermed. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk. w/timeout, accepts plug-on PBN	320.00
6163	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	295.00
6163A	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone lpbk. with 4/20-min. timeout	320.00
6923	4W-2W SF-to-FXS Signaling Set with 600/900-ohm term. set (FSA/FSB), accepts plug-on PBN (Type 16)	306.00

4Wire-to-4Wire

6943	4W-4W SF-to-FXS Signaling Set (FRA) (Type 16)	286.00
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SF-to-FXO

	4Wire-to-2Wire	
6124	4W-2W SF-to-FXO Term. Repeater with presc. gain, presc. rcv. slope/bump eql., xmt. slope pre-eql., and bantam jks.	295.00
6124A	4W-2W SF-to-FXO Term. Repeater with presc. gain and rcv. slope/bump eql., xmt. slope pre-eql., bantam jks., and 2-tone transm. and sig. lpbk.	320.00
6164	4W-2W SF-to-FXO Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	295.00
6164A	4W-2W SF-to-FXO Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	320.00
6924	4W-2W SF-to-FXO Signaling Set with 600/900-ohm term. set (FLA/FLB), accepts plug-on PBN (Type 16)	306.00
	4Wire-to-4Wire	
6944	4W-4W SF-to-FXO Signaling Set (FPA) (Type 16)	286.00

SF-to-E&M/FXS/FXO

	4Wire-to-2Wire	
6927A	4W-2W Universal (E&M/FXS/FXO) SF Signaling Set with presc. gain and 600/900-ohm term. set, accepts plug-on rcv. and xmt. eql. (Type 16)	337.00
	4Wire-to-4Wire	
6947A	4W-4W Universal (E&M/FXS/FXO) SF Signaling Set with presc. gain, accepts plug-on rcv. and xmt. eql. (Type 16)	302.00

SF-to-Ringdown

	4Wire-to-2Wire	
6163	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, rcv. 309B-equiv. eql., and bantam jks., no lpbk.	295.00
6163A	4W-2W SF-to-FXS/ARD Term. Repeater with presc. gain, rcv. 309B-equiv. eql., bantam jks., and 2-tone transm. and sig. lpbk. with 4/20-min. timeout	320.00
6925	4W-2W SF-to-Ringdown Signaling Set with 600/900-ohm term. set (FRD), accepts plug-on PBN (Type 16)	308.00
	4Wire-to-4Wire	
6945	4W-4W SF-to-Ringdown Signaling Set (FRD) (Type 16)	296.00

SF-to-DX

	4Wire-to-4Wire	
6941	4W-4W SF-to-DX Signaling Set (FDX) (Type 16)	292.00

optional equipment and subassemblies for single-frequency (SF) signaling modules

6850	Common Oscillator Module, 2600Hz, with resistive distribution	199.00
9901	Pulse Corrector (8 to 14pps input)	39.00
9908A	Active Slope Equalizer subassembly (with prescription alignment capability)	25.00
9908B	Active Prescription Equalizer subassembly (WECO 309B-equivalent)	25.00
9930	Precision Balance Network subassembly, H88 cable (19 to 26 gauge)	49.00
9932	Precision Balance Network subassembly, nonloaded cable or Type 500 tel set interface ...	49.00
9933	Precision Balance Network subassembly, direct Type 500 tel set interface	39.00

prewired systems

260A	SF Signaling and Terminating System (Type 10)	see section 2
262	Network Channel Terminating Equipment/Data Station Termination (NCTE/DST) System	see section 2
267S	SF Signaling and Terminating System (Type 16)	see section 2
269	SF Signaling and Terminating System (Type 16)	see section 2
1624C-19	Two Type 16 Mounting Shelves with common connectorized backplate, wired for Type I E&M interface, 19-inch, 14" high	498.00
1624C-23	Two Type 16 Mounting Shelves with common connectorized backplate, wired for Type I E&M interface, 23-inch, 14" high	500.00
1624D-19	Two Type 16 Mounting Shelves with common connectorized backplate, wired for Type II E&M interface, 19-inch, 14" high	498.00
1624D-23	Two Type 16 Mounting Shelves with common connectorized backplate, wired for Type II E&M interface, 23-inch, 14" high	500.00
1624F-19	Double-Density Type 16 Mounting Shelf, 19-inch, with connectorized backplane, wired for Type I and Type II E&M interface, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high	375.00

1624F-23	Double-Density Type 16 Mounting Shelf, 23-inch, with connectorized backplane, wired for Type I and Type II E&M interface, accommodates 12 standard or 24 low-profile Type 16 modules, 7" high.....	379.00
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SST system, 334

see section 2

station termination modules

4405	4Wire Single-Line Station Termination with sidetone amplifier	99.00
4406	4Wire Key Station Termination with sidetone amplifier and pickup relay	109.00
4408	4Wire Line Termination module with sidetone amplifier	75.00
4409	Pickup Relay and (key) Station Circuit module	105.00

subassemblies, miscellaneous

see section 9

T-carrier cross-connect systems, 53X

see section 2

T-coder system, 450

see section 2

T-coder system, 451

see section 2

teleconferencing systems, 281

see section 2

telephone sets

see section 9

terminating sets

2Wire-to-4Wire

4201	Terminating Set, 600/900-ohm switchable, with 310-type jks.	104.00
4203	Terminating Set, 600/900-ohm switchable, with A&B-lead inductor and 310-type jks.	114.00
4523	Terminating Set, 600/900-ohm switchable, with A&B-lead inductors (Type 12)	116.00

4Wire-to-4Wire or 4Wire-to-2Wire (switchable)

6461R	4W-4W/2W Common Signaling Module, passive (used with 9961X Signaling Converter subassemblies) (Type 15)	149.00
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voice bridging equipment

modules, Type 10

4444	4Wire 4Way Active Bridge for voice conferencing	84.00
4446	4Wire 6Way Active Bridge for voice conferencing	98.00
4462	4Wire 2Way Voice Conference Bridge with integral line amp and bantam jks.	175.00
4462B	4Wire 2Way Voice Conference Bridge with integral line amp, rcv. slope/bump eq., bantam jks., and seal. curr.	214.00

prewired systems

NOTE: The prewired 24X Mounting Assemblies accommodate the 4462 and 4462B modules.

24XA	Mounting Assembly, 19-inch, 12-position, with pcb backplane and five 25-pair connectors	268.00
24XB	Mounting Assembly, 23-inch, 14-position, with pcb backplane and five 25-pair connectors	278.00

voice signaling system, 265A

see section 2

Tellabs Domestic Warranty, Repair and Return Policy

Effective August 1, 1986

General Warranty

Tellabs, Inc., warrants each of its standard products to be free of defects in material and workmanship for a period of five (5) years from the date of manufacture.

The warranty period for the 252 and 253 Digital Echo Canceller Systems, the 281X Teleconferencing Systems, the 29X Conference/Alerting Systems, the 330 Dataplexer, the 331 Xplexer, the 334 Selective Signaling System, the 341C Interface Converter, the 3010 Asynchronous Line Driver, the 411 T1 Channel Service Unit, the 450 and 451 T-Coders, the 454 24-Channel Digital Compandor System, the 53X T-Carrier Cross-Connect Systems (TCS's), and each system's associated modules is two (2) years.

Tellabs warrants to the original user of an original copy of the 320 Network Monitor software that the medium associated with the 320 Network Monitor (i.e., the diskette) is free from defects in materials and workmanship under normal use for a period of ninety (90) days from the date of delivery.

The warranty period for the 310 Datavoice System and all related Datavoice System products, and for the 430 T-Plexer, is one (1) year. The warranty period for modified products is one (1) year.

Conditions and Exceptions

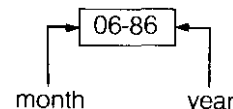
The product must be applied as outlined in its Tellabs practice or technical manual, and it must be handled, installed, operated, and shipped according to industry standards for solid-state electronic equipment. Claims under this policy may be made only by the original purchaser or user. This policy does not apply to items that have a limited life expectancy, e.g., lamps and fuses.

EXCLUSION OF WARRANTIES AND LIMITATION OF LIABILITY

ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY EXCLUDED FROM THIS WARRANTY. TELLABS' LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT DURING THE WARRANTY PERIOD, AT TELLABS' OPTION. UNDER NO CIRCUMSTANCES SHALL TELLABS BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECT, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR INABILITY TO USE TELLABS PRODUCTS.

Warranty Date Codes

Each Tellabs module is stamped with a warranty date code in a customer-accessible location (e.g., front panel, circuit-card stiffener, etc.). This date stamp approximates the date of shipment. The warranty period begins on the date stamped on the product. A sample date code is shown below.



This method of date stamping was instituted in February of 1986. Please contact Tellabs' Product Services Department at (312) 969-8800 if you require further details.

Procedure for Repair and Return

When a product requires repair service, contact the Tellabs Product Services Department at (312) 969-8800 and request a Material Return Authorization (MRA) number. A service representative will request key data (your company's name and address, the product's model and issue numbers and warranty date code, and the purchase order number for the return transaction). The service representative will then give you an MRA number that identifies your particular transaction. Your repair request will be immediately scheduled to ensure timely repair.

After you obtain the MRA number, send the product prepaid to:

Tellabs, Inc.
4951 Indiana Avenue
Lisle, Illinois 60532
Attn: Product Services

Enclose an explanation of the malfunction, your company's name and address, the name of a person to contact for further information, and the purchase order number for the transaction. Be sure to write the MRA number clearly on the outside of the carton being returned.

Tellabs will inspect, repair, and retest the returned item so that it meets its original performance specifications. Test procedures and equipment equivalent to or better than those used during the product's original qualification tests will be used.

Extent of Repairs

Standard products will be repaired and updated to the latest revision level practicable within that product's issue level. Revision updating requiring printed circuit board redesign or structural redesign will not be performed.

A modified or manufacture-discontinued product will be repaired to meet Tellabs' original performance specifications established for the product. No revision updating will be performed.

Costs

Products out of warranty may be returned to Tellabs for repair at a nominal cost. The charge for retesting, repairing, and revision-updating a product is 25 percent of the product's current list price plus a \$30.00 administrative fee. Repair charges for modules are limited to a maximum of \$400.00.

When repair charges exceed 60 percent of a module's value, the module will be deemed UNREPAIRABLE and the customer will be so advised. Repair of such a module will be at the customer's option. If repair is declined, the repair charges will be waived and only the administrative charge applied.

Effect of Retesting

The warranty period for any product that has been repaired is either the remainder of the product's original warranty period or six (6) months from the date of shipment, whichever is longer. Products that are out of warranty and that have been repaired will receive a new warranty period covering the repairs for three (3) months from the date of shipment.

Cosmetic Refurbishment

Cosmetic refurbishment will be done only at the specific request of the customer. A fee of \$30.00 will be added for such services (does not include cabinets or enclosures).

All of the above costs for retesting, repairing, and refurbishing Tellabs products include handling, labor, material, and return shipping charges.

Damage Beyond Repair

Boards which, in Tellabs' opinion, are damaged beyond repair will be returned to the customer with a \$30.00 handling charge. Damage beyond repair includes, but is not limited to, burn marks, cracks, or other physical damage; modifications made by someone other than Tellabs; and damage due to catastrophic failure (such as lightning-caused damage).

Tellabs Product Replacement Service

Tellabs recognizes that customer support is essential when a time-critical service outage requires immediate or rapid product replacement. The Tellabs Product Replacement service is designed to provide reliable delivery of a complete replacement product anywhere in the United States or Canada. This service provides two alternatives to the standard 15-day Repair and Return warranty service.

Express Service: Overnight delivery of an exact replacement unit (if in replacement stock) anywhere in the United States.

Standard Service: Five-day expedited delivery of an exact replacement unit (if in replacement stock) anywhere in the United States or Canada. Replacement equipment will be shipped via surface carrier.

How To Obtain a Product Replacement

When a critical service outage exists, contact your Tellabs Regional Sales Office, where field service engineers are available during normal working hours to assist in diagnosing your equipment problems. If equipment service or replacement is required, the field service engineer will arrange for replacement of the defective equipment via the delivery mode of your choice. To expedite your replacement request, the field service engineer will also request key data (your company's name and address, the product's model and issue numbers and warranty date code, and the purchase order number for the replacement transaction).

Tellabs will ship the replacement product to your location under the terms listed below. A service charge will be applied to Express Service orders to cover shipping and special handling.

service type	service charge	out-of-warranty charge
Express Service*	\$40 per module**	standard repair price
Standard Service	no charge**	standard repair price

* The Express Service fee will be waived if (1) the Express Service request is within 90 days of a defective product's warranty date sticker (date of shipment), or (2) Tellabs fails to deliver next-day service for an Express Service order received prior to 2:00 p.m. (local time).

** Plus standard repair price if product is out of warranty.

An invoice in the amount of the current price of such equipment plus the service charge will be issued after the replacement is shipped. Upon receipt of the replacement, the customer should package the defective equipment in the replacement's carton, sign and enclose the packing list, affix to the carton the preaddressed label provided, and ship the carton prepaid to Tellabs. When the defective equipment is received (within 30 days of our issuing the replacement), the invoice will be adjusted to reflect only Express Service charges.

Please note that OEM, modified, and manufacture-discontinued products are expressly excluded from the Tellabs Replacement Express policy.

* Registered trademark of AT&T.

**Corporate Headquarters:**

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Lisle, IL 60532
(312) 969-8800

Atlantic Region:

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101 East Ridge Drive
Suite 104
Danbury, CT 06810
(203) 798-0506

Capital Region:

Tellabs, Inc.
Centec Building
11260 Roger Bacon Drive
Suite 105
Reston, VA 22090
(703) 478-0468

Central Region:

Tellabs, Inc.
One Naperville Plaza
Suite 101
1804 North Naperville Road
Naperville, IL 60566
(312) 357-7400

Southeast Region:

Tellabs, Inc.
950 South Winter Park Drive
Suite 207
Casselberry, FL 32707
(305) 834-8311

Southwest Region:

Tellabs, Inc.
400 East Las Colinas Boulevard
Suite 470
Irving, TX 75039
(214) 869-4114

Western Region:

Tellabs, Inc.
3100 Lake Center Drive
Suite 350
Santa Ana, CA 92704
(714) 850-1300