Code, Speed, Interface, and
Async/Sync Converters

MANUFACTURER & MODEL	Astrocom ATS-1	Avanti Communications Model 100	Avanti Communications Model 110	Avanti Communications Model 120
DEVICE TYPE	Async/sync converter	Interface converter	Interface converter	Interface converter
CONVERSION PERFORMED	Async to sync	RS–232–C to V.35	RS–232–C to AT&T 301/303	V.35 to AT&T 301/303
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	19.2K	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE
Synchronization	Async/sync	—	—	—
Transmission mode	Full duplex	—	—	—
Codes supported	ASCII	—	—	—
Interface	RS–232–C	1 V.35 (DCE), 1 RS–232–C	1 301/303, 1 RS–232–C	1 V.35, 1 301/303
SPECIFIC DEVICES SUPPORTED	Any modem	Any RS–232–C	Any RS–232–C	Any with V.35 interface
CONNECTIONS SUPPORTED	Leased lines	Direct	Direct	Direct
DIAGNOSTICS	Status LEDs	—	—	—
PRICING AND AVAILABILITY				
Purchase, $	295	550	1,000	1,150
Serviced by	Vendor	Vendor	Vendor	Vendor
Availability	2 weeks	30	30	30 days
Date of first comm. delivery of this model	—	June 1976	June 1976	June 1976
Number installed to date		—	—	—
COMMENTS	Automatic speed adjustment to synchronous device rate; no internal configurations required; break detection and propogation	Designed to interface DTE with RS–232–C interface to DCE with V.35; int. converter kit incl. one six-foot cable	Interfaces DTE with RS–232–C to DCE with AT&T 301/303; converter kit includes one six-foot cable	Interfaces DTE with V.35 to AT&T 301/303 modems

MANUFACTURER & MODEL	Avanti Communications Model 130	Avanti Communications Model 140	Avanti Communications Model 160	Avanti Communications Model 170
DEVICE TYPE	Interface converter	Interface converter	Interface converter	Interface converter
CONVERSION PERFORMED	AT&T 301/303 to V.35	RS–232–C to neutral current loop	AT&T 301/303 to RS–232–C	V.35 to RS–232–C
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE
Synchronization	—	—	—	—
Transmission mode	—	—	—	—
Codes supported	—	—	—	—
Interface	1 V.35, 1 301/303	See comments	RS–232–C or AT&T 301/303	V.35, RS–232–C
SPECIFIC DEVICES SUPPORTED	Any with AT&T 301/303 interface	Any with RS–232–C	Any with AT&T 301/303 interface	Any with V.35 interface
CONNECTIONS SUPPORTED	Direct	Direct	Direct	Direct
DIAGNOSTICS	—	—	—	—
PRICING AND AVAILABILITY				
Purchase, $	1,225	315	750	550
Serviced by	Vendor	Vendor	Vendor	Vendor
Availability	30 days	30 days	30 days	30 days
Date of first comm. delivery of this model	June 1976	June 1976	June 1976	June 1976
Number installed to date	—	—	—	—
COMMENTS	Permits data communications users to change wideband services from AT&T 301/303 modem interface to DDS V.35 interface	Allows RS–232–C interface equipment to be connected to Teletype equipment with neutral current loop; can also be used as a line driver	Converts AT&T 301/303 on terminal side to RS–232–C on communications side	Converts V.35 on terminal side to RS–232–C on the communications side

Code, Speed, Interface, and
Async/Sync Converters

MANUFACTURER & MODEL	ComData ASC-100	Com/Tech Systems RTS/Emulator A302	Dataprobe DR-10	Dataprobe DR-15
DEVICE TYPE	Async/sync converter	Async/sync converter	Protocol converter	Code and speed converter
CONVERSION PERFORMED	Asynchronous to synchronous protocol	Full to half duplex; async to sync	ASCII to Poll Select	ASCII-Baudot-EBCDIC
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	600—19.2K	9600	9600	9600
Synchronization	Async/sync	Asynchronous	Async/sync	Async/sync
Transmission mode	Full duplex	Half/full duplex	Half/full duplex	Half/full duplex
Codes supported	ASCII, EBCDIC, Wang	5—9 level codes	ASCII, Baudot	ASCII, Baudot
Interface	RS–232–C	RS–232–C	2 RS–232–C, 1 current loop	RS-232-C, current loop
SPECIFIC DEVICES SUPPORTED	Contact vendor	Any	—	—
CONNECTIONS SUPPORTED	—	Direct, dial-up	Leased line	Leased line
DIAGNOSTICS	—	None	Self-test	Self-test
PRICING AND AVAILABILITY				
Purchase, $	247	390-450	750	750
Serviced by	Vendor	Factory	—	—
Availability	Contact vendor	Two weeks	—	—
Date of first comm. delivery of this model	Info. not available	1978	1983	1983
Number installed to date	Info. not available	—	250	75
COMMENTS	Nominal async and sync rates must match; unit has 48-bit buffer that allows maximum packed block length of 24K 10-bit charac. at .02% speed difference	Includes 64 or 128 character buffer and break signalling	Custom programs	Custom programs

MANUFACTURER & MODEL	Dataprobe DR-7	Datatel DCP Series Interface Converters	DCC ECS–10	DCC ECS–20
DEVICE TYPE	Interface converter	Interface converters	Interface converter	Interface converter
CONVERSION PERFORMED	RS-232-C/RS-422 to V.35	RS–232–C to V.35, RS–422 & MIL-188; V.35 to RS–422	RS–232–C to 20/60 mA	RS–232–C to 20 mA current loop
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	56K bps	Dev. depend.	9600	9600
Synchronization	Synchronous	Async/sync	Asynchronous	Asynchronous
Transmission mode	Full duplex	Half/full duplex	Full duplex	Full duplex
Codes supported	All	—	All	All
Interface	RS-232-C/RS-422 to V.35	RS–232–C, V.35, RS–422, MIL-188	RS–232–C, current loop	RS–232–C, current loop
SPECIFIC DEVICES SUPPORTED	Any RS-232-C	DTE/DCE	—	—
CONNECTIONS SUPPORTED	Direct	Direct	Direct	Direct
DIAGNOSTICS	Status LEDs	Front-panel LEDs moni-Tx/Rx data and clock and DCE or DTE connection	Manual	Status LEDs, manual
PRICING AND AVAILABILITY				
Purchase, $	350	300—400 (qt. dis avail)	125	125
Serviced by	—	Vendor	Factory	Factory
Availability	10 days	30 days	Stock to 30 days	Stock to 30 days
Date of first comm. delivery of this model	1982	August 1984; May 1985	1977	1985
Number installed to date	350	Info. not available	2,500	Approximately 190
COMMENTS	—	DCP Series converters provide connection and conversion from modem to terminal and from terminal to modem; all units operate bi-directionally	Optical isolation for host/terminal protection high noise immunity; multidrop cap.; active/passive interface to other 20/60 mA devices; long line driving cap.	Optical isolation; high noise immunity; long line driv.cap;interfaces 20 mA single & multidrop circuits; control chan. in ea. direction; LED data/control indicators

Code, Speed, Interface, and Async/Sync Converters

MANUFACTURER & MODEL	Gandalf Data IFC 201/202/203/204	Gandalf Data IFC 205/206	Gandalf Data IFC 207/208/209	Gandalf Data AIM 2086
DEVICE TYPE	Interface converters	Interface converters	Interface converters	Subscriber interface model for data PBXs
CONVERSION PERFORMED	RS–232–C to RS–422 or RS–423 and vice versa (dep. on model)	RS–232–C to V.5 and vice versa (dep. on model)	RS–232–C to AT&T 300 & vice versa; AT&T 300 to V.35 (dep. on model)	Speed, flow control, parity, character format
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	20K bps; 2M bps (RS–422)	20K	48K	—
Synchronization	Asynchronous	Asynchronous	Asynchronous	Asynchronous
Transmission mode	Full duplex	Full duplex	Full duplex	Full duplex
Codes supported	All	All	All	ASCII
Interface	RS–232–C and RS–422 or RS–423 dep. on model	RS–232–C and V.35	RS–232–C and AT&T 300 or V.35 (dep. on model)	RS–232–C
SPECIFIC DEVICES SUPPORTED	DCE/DTE	DCE/DTE	DCE/DTE	Async DTE or DCE equipment
CONNECTIONS SUPPORTED	Direct	Direct	Direct	Direct
DIAGNOSTICS	None	None	None	Status LEDs, remote tests, loopbacks
PRICING AND AVAILABILITY				
Purchase, $	425	425	400 (207/208); 650 (209)	Contact vendor
Serviced by	—	—	—	Vendor
Availability	15 days	15 days	15 days	15 days
Date of first comm. delivery of this model	April 1982	April 1982	April 1982	—
Number installed to date	Info. not available	Info. not available	Info. not available	—
COMMENTS	All units equipped with self-contained power supplies and appropriate cables and connectors	All units equipped with self-contained power supplies and appropriate cables and connectors	All units equipped with self-contained power supplies and appropriate cables and connectors	Subscriber interface module for data PBX; microprocessor-based unit

MANUFACTURER & MODEL	General DataComm ASC–1	General DataComm GDC Interface Converter Series	INCAA Datacom B.V. PIT-BSC-0001	JBM Electronics ALD
DEVICE TYPE	Async/sync converter	Interface converter	Interface, async/sync, string, flow-control, speed, and code convertr Level 1 (OSI) converter	Interface converter
CONVERSION PERFORMED	Asynchronous to synchronous	RS–422 to RS–232–C, RS–422 to V.35, and RS–232–C to V.35		RS–232–C to RS–422
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	9600	—	19.2K	100K
Synchronization	Async/sync	Async/sync	Async/sync	Asynchronous
Transmission mode	Half/full duplex,simplex	Half/full duplex	Half/full duplex	Full duplex
Codes supported	ASCII	ASCII	ASCII/EBCDIC/Baudot, all	ASCII
Interface	RS–232–C, V.24, V.28	RS–422, RS–232–C, V.35	RS–232–C, V.24, V.28	RS–232–C
SPECIFIC DEVICES SUPPORTED	Asynchronous terminal	DTE/DCE	Undefinable	Not applicable
CONNECTIONS SUPPORTED	Direct, dial-up	Direct, dial-up	Direct, dial-up, leased lines	Direct
DIAGNOSTICS	Loopback test (sync)	Power LED	Status LEDs, remote tests, set-up test	Status LEDs, loopbacks
PRICING AND AVAILABILITY				
Purchase, $	295	See comments	1,200	135
Serviced by	Factory	Factory	Contact vendor	Factory
Availability	30 days	30 days	Contact vendor	7 days ARO
Date of first comm. delivery of this model	1981	1985	—	1984
Number installed to date	1000	—	—	3,000
COMMENTS	Automatically and dynamically manages flow of data to avoid buffer overflow; accepts up to 2 percent continuous async input	GDC 422—232 model is $225; 422—V.35 model is $295; and 232—V.35 model is $475. All devices perform a bidirectional conversion	—	Compact unit signal regeneration for RS–232–C connection

Code, Speed, Interface, and
Async/Sync Converters

MANUFACTURER & MODEL	Method Systems PCT-100	Nu Data 701A	Nu Data 722	Nu Data T26 Series
DEVICE TYPE	Code and speed converter, data manipulation	Code and speed converter	Code and speed converter, interface converter, ser/par	Interface converter, code and speed converter
CONVERSION PERFORMED	—	Current loop to RS–232–C	—	PSDN to RS–232–C
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	19.2K	2400	19.2K	2400
Synchronization	Asynchronous	Asynchronous	Asynchronous	Asynchronous
Transmission mode	Full duplex	Half duplex	Half/full duplex	Half/full duplex
Codes supported	ASCII, Baudot, EBCDIC *	ASCII, Baudot	ASCII, Baudot, EBCDIC	ASCII, Baudot
Interface	RS–232–C	RS–232–C, V.24, V.28, current loop	RS–232–C, V.24, V.28, parallel	RS–232–C, V.24, V.28
SPECIFIC DEVICES SUPPORTED	Most async machines	Any async computer port	—	Any async computer port
CONNECTIONS SUPPORTED	—	Direct, leased lines, Telex	Direct, leased lines	Direct, leased lines, Telex, DDD
DIAGNOSTICS	Not applicable	Status LEDs	Status LEDs, programmable	Status LEDs
PRICING AND AVAILABILITY				
Purchase, $	495	395	680	From 980
Serviced by	Factory	Factory	Factory	Factory
Availability	From stock	Stock	Stock	Stock
Date of first comm. delivery of this model	1983	1983	January 1986	1982
Number installed to date	Approximately 2,000	250	150	5,000
COMMENTS	Programmable Communications Translator allows software/hardware interfaces to be made compatible and can provide system-level enhancements	Simplex Baudot to ASCII code/speed conversion	Multifunctional unit available with many standard or custom-programmed features	Provides computer access to all Telex and DDD networks

MANUFACTURER & MODEL	Quasitronics Asynchronous Protocol Converter	Quasitronics Q-1108	Quasitronics Q1488C/S	Quasitronics Q4011 and Q-4015
DEVICE TYPE	Bidirectional code conversion	Interface converter	Interface converter	Interface converter
CONVERSION PERFORMED	ASCII to EBCDIC; ASCII to Baudot	BCD parallel to RS–232–C	RS–232–C to IEEE 488	RS–232–C to Centronics parallel or Data Products parallel
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	19.2K	9600	9600	9600
Synchronization	Asynchronous	Asynchronous	Asynchronous	Asynchronous
Transmission mode	Half/full duplex	Half/full duplex	Full duplex	Half duplex
Codes supported	ASCII, EBCDIC, Baudot	ASCII	ASCII	ASCII, EBCDIC
Interface	RS–232–C	RS–232–C, BCD Parallel	RS–232–C, IEEE 488	RS–232–C, Centronics parallel
SPECIFIC DEVICES SUPPORTED	Async ASCII terminals and peripherals	—	—	—
CONNECTIONS SUPPORTED	Direct	Direct	Direct	Direct
DIAGNOSTICS	Front-panel LEDs	Status LEDs	Status LEDs	—
PRICING AND AVAILABILITY				
Purchase, $	Contact vendor	920	1,159 to 1,289	325
Serviced by	Vendor	Vendor	Vendor	Vendor
Availability	—	60 days	60 days	60 days
Date of first comm. delivery of this model	First quarter 1986	1982	1982	1983
Number installed to date	Info. not available	Over 500	Over 500	Over 2,000
COMMENTS	Contains modular firmware, selected through internal switch settings; other stan. features in. flow control conv. bwt. X-on/X-off, RTS/CTS, DTR/DSR, and ENQ/ACK	Converts 8 digits of BCD parallel to RS–232–C ASCII code	Provides either slave or controller operation on IEEE-488 bus. Slave unit can either be a talker or listener	Will convert to and from either Centronics parallel or Data Products parallel interfaces to or from RS–232–C

Code, Speed, Interface, and
Async/Sync Converters

MANUFACTURER & MODEL	Shaffstall 5000XT	Tekelec T.A.N.S. 1000, 2000, 3000, 4000, 6000, 7000, 8000, and 9000	Telebyte Technology Model 61	Telebyte Technology Series 63
DEVICE TYPE	Interface converter	Async/sync converter	Converter (cable)	Interface converter
CONVERSION PERFORMED	—	—	RS–232–C to Coaxial	RS–232–C to RS–422
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	9600	—	9600	19.2K
Synchronization	Async/sync	Async/sync	Asynchronous	Asynchronous
Transmission mode	Half duplex	Half/full duplex	Full duplex	Half/full duplex
Codes supported	ASCII, EBCDIC	ASCII, EBCDIC	ASCII	—
Interface	RS–232–C	RS–232–C, V.24, V.35	RS–232–C	RS–232–C
SPECIFIC DEVICES SUPPORTED	—	—	—	—
CONNECTIONS SUPPORTED	Direct, dial-up	Direct, dial-up, leased	Coax	Direct
DIAGNOSTICS	Status LEDs	Remote tests, LCD display	—	—
PRICING AND AVAILABILITY				
Purchase, $	14,500+, dep. on options	5,000 to 9,500	75	98/host; 126/self
Serviced by	Vendor's support dept.	Vendor	Vendor	Telebyte
Availability	30 days ARO	30 days	3 days	14 days
Date of first comm. delivery of this model	1986	May 86-UK, Feb 87-US	—	—
Number installed to date	Over 800	280	—	4000
COMMENTS	The 5000XT enables the conversion of word processor or PC disks to other, formerly incompatible, systems	The only communications processor on the market capable of protocol conversion, protocol switching, term. & prntr sharing and LAN node connection all in 1 unit	DTE/DCE switch; Model 61 derives operating power from host by 'stealing' power from control signals	Provides up to 4000 ft. transmission for data and three control signals

MANUFACTURER & MODEL	Telebyte Tehcnology Models 64/65	Telebyte Technology Model 66	Telebyte Technology Model 67	Telebyte Technology Model 69-1
DEVICE TYPE	Interface converter	Interface converter	Interface converter	Interface converter
CONVERSION PERFORMED	RS–232–C to current loop	RS–232–C to RS–485	RS–232–C to V.35	RS–232–C to MIL-STD-188C
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	9600	38.4K	64K	19.2K
Synchronization	Asynchronous	Asynchronous	Async/sync	Asynchronous
Transmission mode	Half/full duplex	Half duplex	Full duplex	Full duplex
Codes supported	—	All	ASCII	ASCII
Interface	RS–232–C, current loop	RS–232–C	RS–232–C, V.35	RS–232–C
SPECIFIC DEVICES SUPPORTED	For use with teletypes or computers providing current loop input	All	—	—
CONNECTIONS SUPPORTED	Direct	Direct	—	—
DIAGNOSTICS	—	LEDs	—	—
PRICING AND AVAILABILITY				
Purchase, $	80/100	120	195	100
Serviced by	Telebyte	—	Vendor	Vendor
Availability	14 days	—	30 days	30 days
Date of first comm. delivery of this model	—	January 1986	—	—
Number installed to date	3,000	—	—	—
COMMENTS	Switch sel. DCE/DTE operation; Model 64 host powered, Model 65 self powered	Offers programmable contention and line selection; implements low-cost LAN by interfacing RS–232-C equipment with networks based on new RS-485 standard	67-1 RS–232=DTE 67-2 RS–232=DCE	The Series 69 converters provide a hardware conversion between conventional RS–232 based equipment and systems employing a version of MIL-STD-188

Code, Speed, Interface, and
Async/Sync Converters

MANUFACTURER & MODEL	Telebyte Technology Model 69-6	Telebyte Technology Model 78	Telebyte Technology 121 Dual Converter	Teleprocessing Products TP–200
DEVICE TYPE	Interface converter	Interface converter	Interface converter	Async/sync converter
CONVERSION PERFORMED	RS–232–C to MIL-STD-100	RS–232–C to current loop (dual)	RS–232–C to RS–422	8-bit ASCII or 7-bit IBM async to sync
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	19.2K	9600	38.4K	75 to 19.2K
Synchronization	Synchronous	Asynchronous	Asynchronous	Async/sync
Transmission mode	Full duplex	Half/full duplex	Full duplex	Half/full duplex,simplex
Codes supported	ASCII, EBCDIC	All	ASCII, EBCDIC	ASCII
Interface	RS–232–C	2 RS–232–C; 2 current loop	RS–232–C	RS–232–C
SPECIFIC DEVICES SUPPORTED	—	—	—	Any async device with RS–232–C interface
CONNECTIONS SUPPORTED	—	Direct	Leased lines	Dial-up
DIAGNOSTICS	—	Loopback, LEDs	Status LEDs, loopbacks	Loopbacks
PRICING AND AVAILABILITY				
Purchase, $	350	195	75	Contact vendor
Serviced by	Vendor	—	Vendor	Vendor
Availability	30 days	5 days	5 days	30 days
Date of first comm. delivery of this model	—	February 1983	June 1986	1979
Number installed to date	—	—	—	2,000
COMMENTS	—	Fourteen Model 78s may be housed in 76-2 card cage occupying 5¼-inch of rack space	Rack-mounted unit	Suitable for polled, switched, or dedicated systems; allows device trans. ASCII or IBM data to operate with sync modem

MANUFACTURER & MODEL	Teleprocessing Products TP–200M	Teleprocessing Products TP–201	Teleprocessing Products TP–300	Teleprocessing Products TP–350
DEVICE TYPE	Async/sync converter	Async/sync converter	Interface converter	Interface converter
CONVERSION PERFORMED	Async data to sync for op. with modem or DSU	Async term or comp. to sync modem or DDS	RS–232–C to current AT&T 303	RS–232–C to V.35
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	110 to 9600	1200 to 9600	9600	9600
Synchronization	Async/sync	Async/sync	Async/sync	Async/sync
Transmission mode	Half/full duplex	Half/full duplex, simplex	Half/full duplex	Half/full duplex
Codes supported	ASCII	ASCII	All	All
Interface	RS–232–C	RS–232–C	1 RS–232–C, current loop	RS–232–C, V.35
SPECIFIC DEVICES SUPPORTED	Any async device with RS–232–C interface	Any async device with RS–232–C interface	Any modem or DTE with RS–232–C or AT&T 303 interface	Any modem or DTE with RS–232–C or V.35 interface
CONNECTIONS SUPPORTED	Dial-up	Dial-up	Direct	Direct
DIAGNOSTICS	Status LEDs, remote tests	Loopbacks	Status LEDs	Status LEDs
PRICING AND AVAILABILITY				
Purchase, $	Contact vendor	Contact vendor	Contact vendor	Contact vendor
Serviced by	Vendor	Vendor	Vendor	Vendor
Availability	30 days	30 days	Stock	Stock
Date of first comm. delivery of this model	1981	1984	1978	1978
Number installed to date	500	1,000	200	500
COMMENTS	With async modems TP–200M offers speed-matching and error correction	Suitable for polled, switched, or dedicated systems	Designed as universal adapter; can provide patching and monitoring capability in network control centers	Provides bidirectional data and control signal conversion for adapting V.35 and RS–232–C interfaces

Code, Speed, Interface, and Async/Sync Converters

MANUFACTURER & MODEL	VIR MIU-V.35	VIR MIU-303	VIR MIU-303/V.35	Wall Data CPX Port Expander
DEVICE TYPE	Interface converter	Interface converter	Interface converter	Code and speed converter
CONVERSION PERFORMED	V.35 to RS-232-C	RS-232-C to AT&T 303	V.35 to AT&T 303	Sync RS-232-C—multiple sync RS-232-C
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	230.4K	230.4K	—	9600
Synchronization	Async/sync	Async/sync	Asynchronous	Synchronous
Transmission mode	Half/full duplex	Half/full duplex	Half/full duplex	Half/full duplex
Codes supported	ASCII, Baudot, EBCDIC	ASCII, Baudot, EBCDIC	ASCII, Baudot, EBCDIC	EBCDIC
Interface	RS-232-C, V.35	RS-232-C, AT&T 303	V.35, AT&T 303	RS-232-C
SPECIFIC DEVICES SUPPORTED	Any RS-232-C, V.35	All RS-232-C, AT&T 303	All V.35, AT&T 303	IBM PU type 2.X (3274, 3770, etc.)
CONNECTIONS SUPPORTED	Direct, dial-up or leased lines	Direct, dial-up or leased lines	Direct, dial-up or leased lines	Direct, dial-up, leased
DIAGNOSTICS	Status LEDs	Status LEDs	Status LEDs	Status LEDs, remote tests
PRICING AND AVAILABILITY				
Purchase, $	680	680	610	4,495 to 5,995
Serviced by	Vendor	Vendor	Vendor	Vendor at factory
Availability	Stock	Stock	Stock	30 days
Date of first comm. delivery of this model	—	—	—	November 1986
Number installed to date	—	—	—	20
COMMENTS	RS-232-C monitor port, DTE/DCE switches, rackmount or standalone versions available	RS-232-C monitor port, DTE/DCE switches, rackmount or standalone versions available	RS-232-C monitor port, rackmount or standalone versions available	Not only does CPX expand the number of 37X5 front-end ports, but it also allows for dial-in connection of 3274-type controller with security

Code, Speed, Interface, and
Async/Sync Converters

MANUFACTURER & MODEL	Avanti Communications Model 100	Avanti Communications Model 110	Avanti Communications Model 120	Avanti Communications Model 130
DEVICE TYPE	Interface converter	Interface converter	Interface converter	Interface converter
CONVERSION PERFORMED	RS–232–C to V.35	RS–232–C to AT&T 301/303 current	V.35 to AT&T 301/303 current loop	AT&T 301/303 to V.35
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE
Synchronization	—	—	—	—
Transmission mode	—	—	—	—
Protocols supported	—	—	—	—
Codes supported	—	—	—	—
Interface	1 V.35 (DCE), 1 RS-232-C	1 301/303, 1 RS-232-C	1 V.35, 1 301/303	1 V.35, 1 301/303
SPECIFIC DEVICES SUPPORTED	Any RS-232-C	Any RS-232-C	Any with V.35 interface	Any with AT&T 301/303 interface
CONNECTIONS SUPPORTED	Direct	Direct	Direct	Direct
DIAGNOSTICS	—	—	—	—
PRICING AND AVAILABILITY				
Purchase, $	550	1,000	1,150	1,225
Serviced by	Vendor	Vendor	Vendor	Vendor
Availability	30	30	30 days	30 days
Date of first comm. delivery of this model	June 1976	June 1976	June 1976	June 1976
Number installed to date	—	—	—	—
COMMENTS	Designed to interface DTE with RS–232–C interface to DCE with V.35; int. converter kit incl. one six-foot cable	Interfaces DTE with RS–232–C to DCE with current loop; converter kit incl. one six-foot cable	Interfaces DTE with V.35 to AT&T 301/303 modems	Permits data communications users to change wideband services from AT&T 301/303 modem interface to DDS V.35 interface

MANUFACTURER & MODEL	Avanti Communications Model 140	Avanti Communications Model 160	Avanti Communications Model 170	Com/Tech Systems RTS/Emulator A302
DEVICE TYPE	Interface converter	Interface converter	Interface converter	Transmission mode converter
CONVERSION PERFORMED	RS–232–C to neutral current loop	AT&T 301/303 current interface to RS–232–C	V.35 to RS–232–C	Full to half duplex; async to sync
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE	9600
Synchronization	—	—	—	Asynchronous
Transmission mode	—	—	—	Half/full duplex
Protocols supported	—	—	—	Asynchronous
Codes supported	—	—	—	5—9 level codes
Interface	See comments	RS–232–C or AT&T 301/303	V.35, RS–232–C	RS-232-C
SPECIFIC DEVICES SUPPORTED	Any with RS–232–C	Any with AT&T 301/303 interface	Any with V.35 interface	Any
CONNECTIONS SUPPORTED	Direct	Direct	Direct	Direct, dial-up
DIAGNOSTICS	—	—	—	None
PRICING AND AVAILABILITY				
Purchase, $	315	750	550	390-450
Serviced by	Vendor	Vendor	Vendor	Factory
Availability	30 days	30 days	30 days	Two weeks
Date of first comm. delivery of this model	June 1976	June 1976	June 1976	1978
Number installed to date	—	—	—	—
COMMENTS	Allows RS–232–C interface equipment to be connected to Teletype equipment with neutral current loop; can also be used as a line driver	Converts AT&T 301/303 on terminal side to RS–232–C on communications side	Converts V.35 on terminal side to RS–232–C on the communications side	Includes 64 or 128 character buffer and break signalling

Code, Speed, Interface, and
Async/Sync Converters

MANUFACTURER & MODEL	ComData ASC-100	Dataprobe DR-7	Dataprobe DR-10	Dataprobe DR-15
DEVICE TYPE	Async/sync converter	Interface converter	Protocol converter	Code & Speed converter
CONVERSION PERFORMED	Asynchronous to synchronous protocol	RS–232–C/RS–422 to V.35	ASCII to Poll/Select	ASCII-Baudot-EBCDIC
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	600—19.2K	56K bps	9600	9600
Synchronization	Async/sync	Synchronous	Sync/async	Sync/async
Transmission mode	Full duplex	Full duplex	Half/full duplex	Half/full duplex
Protocols supported	Async/sync	All	TTY, 83B3	TTY, 83B3
Codes supported	ASCII, EBCDIC, Wang	All	ASCII, Baudot	ASCII, Baudot
Interface	RS–232–C	RS–232–C/RS–422 to V.35	2 RS-232-C, 1 current loop	RS-232-C, current loop
SPECIFIC DEVICES SUPPORTED	Contact vendor	Any RS–232–C	—	—
CONNECTIONS SUPPORTED	—	Direct	Leased line	Leased line
DIAGNOSTICS	—	Status LEDs	Self-test	Self-test
PRICING AND AVAILABILITY				
Purchase, $	247	350	750	750
Serviced by	Vendor	—	—	—
Availability	Contact vendor	10 days	—	—
Date of first comm. delivery of this model	Info. not available	1982	1983	1983
Number installed to date	Info. not available	350	250	75
COMMENTS	Nominal async and sync rates must match; unit has 48-bit buffer that allows maximum packed block length of 24K 10-bit charac. at .02% speed difference		Custom programs	Custom programs

MANUFACTURER & MODEL	Datatel DCP Series Interface Converters	DCC/Duracom Corporation ECS–10	DCC/Duracom Corporation ECS–20	Gandalf Data, Inc. IFC 201/202/203/204
DEVICE TYPE	Interface converters	Interface converter	Interface converter	Interface converters
CONVERSION PERFORMED	RS–232–C to V.35, RS–422 & MIL-188; V.35 to RS–422	RS–232–C to 20/60 mA current loop	RS–232–C to 20 mA current loop	RS–232–C to RS–422 or RS–423 and vice versa (dep. on model)
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	Dev. depend.	9600 (2 miles)	9600 (2 miles)	20K bps; 2M bps (RS–422)
Synchronization	Async/sync	Asynchronous	Asynchronous	Asynchronous
Transmission mode	Half/full duplex	Half/full duplex	Half/full duplex	Full duplex
Protocols supported	Asynchronous	Asynchronous	Asynchronous	—
Codes supported	—	Any	Any	All
Interface	RS–232–C, V.35, RS–422, MIL-188	1 RS–232–C, 1 20/60 mA current loop	1 RS–232–C, 1 20 mA current loop	RS–232–C and RS–422 or RS–423 dep. on model
SPECIFIC DEVICES SUPPORTED	DTE/DCE	—	—	DCE/DTE
CONNECTIONS SUPPORTED	Direct	Metallic path	Metallic path	Direct
DIAGNOSTICS	Front-panel LEDs moni-Tx/Rx data and clock and DCE or DTE connection	Manual loopback tests	Manual loopback, LEDs on data/control lines	None
PRICING AND AVAILABILITY				
Purchase, $	300—400 (qt. dis avail)	99 (Qty. 1)	125	425
Serviced by	Vendor	Factory service	Factory service	—
Availability	30 days	Stock to 30 days	Stock to 30 days	30 days
Date of first comm. delivery of this model	August 1984; May 1985	1977	1985	April 1982
Number installed to date	Info. not available	2400	—	Info. not available
COMMENTS	DCP Series converters provide connection and conversion from modem to terminal and from terminal to modem; all units operate bi-directionally	Optical isolation for host/terminal protection high noise immunity; multidrop cap.; active/passive interface to other 20/60 mA devices; long line driving cap.	Optical isolation; high noise immunity; long line driv.cap;interfaces 20 mA single & multidrop circuits; control chan. in ea. direction; LED data & control ln. indic	All units equipped with self-contained power supplies and appropriate cables and connectors

Code, Speed, Interface, and Async/Sync Converters

MANUFACTURER & MODEL	Gandalf Data, Inc. IFC 205/206	Gandalf Data, Inc. IFC 207/208/209	General DataComm ASC–1	General DataComm GDC Interface Converter Series
DEVICE TYPE	Interface converters	Interface converters	Async/sync converter	Interface converter
CONVERSION PERFORMED	RS–232–C to V.5 and vice versa (dep. on model)	RS–232–C to AT&T 300 & vice versa; AT&T 300 to V.35 (dep. on model)	Asynchronous to synchronous	RS–422 to RS–232–C, RS–422 to V.35, and RS–232–C to V.35
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	20K bps	48K bps (V.35)	9600	
Synchronization	Asynchronous	Asynchronous	Async/sync	Async/sync
Transmission mode	Full duplex	Full duplex	Half/full duplex,simplex	Half/full duplex
Protocols supported	—	—	—	—
Codes supported	All	All	ASCII	ASCII
Interface	RS–232–C and V.35	RS–232–C and AT&T 300 or V.35 (dep. on model)	RS–232–C, V.24, V.28	RS–422, RS–232–C, V.35
SPECIFIC DEVICES SUPPORTED	DCE/DTE	DCE/DTE	Asynchronous terminal	DTE/DCE
CONNECTIONS SUPPORTED	Direct	Direct	Direct, dial-up	Direct, dial-up
DIAGNOSTICS	None	None	Loopback test (sync)	Power LED
PRICING AND AVAILABILITY				
Purchase, $	425	400 (207/208); 650 (209)	295	See comments
Serviced by	—	—	Factory	Factory
Availability	30 days	30 days	30 days	30 days
Date of first comm. delivery of this model	April 1982	April 1982	1981	1985
Number installed to date	Info. not available	Info. not available	1000	—
COMMENTS	All units equipped with self-contained power supplies and appropriate cables and connectors	All units equipped with self-contained power supplies and appropriate cables and connectors	Automatically and dynamically manages flow of data to avoid buffer overflow; accepts up to 2 percent continuous async input	GDC 422—232 model is $225; 422—V.35 model is $295; and 232—V.35 model is $475. All devices perform a bidirectional conversion

MANUFACTURER & MODEL	Quasitronics, Inc. Asynchronous Protocol Converter	Remark Datacom Models 64/65	Remark Datacom Series 63	Telebyte Technology Model 78
DEVICE TYPE	Bidirectional code conversion	Interface converter	Interface converter	Interface converter
CONVERSION PERFORMED	ASCII to EBCDIC; ASCII to Baudot	RS–232–C to current loop	RS–232–C to RS–422	RS–232–C to current loop (dual)
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	19.2K	9600	19.2K	9600 bps
Synchronization	Asynchronous	Asynchronous	Asynchronous	Asynchronous
Transmission mode	Half/full duplex	Half/full duplex	Half/full duplex	Half/full duplex
Protocols supported	Asynchronous	—	—	X-on/X-off
Codes supported	ASCII, EBCDIC, Baudot	—	—	All
Interface	RS–232–C	RS–232–C, current loop	RS–232–C	2 RS–232–C; 2 current loop
SPECIFIC DEVICES SUPPORTED	Async ASCII terminals and peripherals	For use with teletypes or computers providing current loop input	—	—
CONNECTIONS SUPPORTED	Direct	Direct	Direct	Direct
DIAGNOSTICS	Front-panel LEDs	—	—	Loopback and LEDs
PRICING AND AVAILABILITY				
Purchase, $	Contact vendor	80/100	98/host; 126/self	195
Serviced by	Vendor	Telebyte	Telebyte	—
Availability	—	14 days	14 days	5 days
Date of first comm. delivery of this model	First quarter 1986	—	—	February 1983
Number installed to date	Info. not available	3000	4000	—
COMMENTS	Contains modular firmware, selected through internal switch settings; other stan. features in. flow control conv. bwt. X-on/X-off, RTS/CTS, DTR/DSR, and ENQ/ACK	Switch sel. DCE/DTE operation; Model 64 host powered, Model 65 self powered	Provides up to 4000 ft. transmission for data and three control signals	Fourteen Model 78s may be housed in 76-2 card cage occupying 5¼-inch of rack space

Code, Speed, Interface, and
Async/Sync Converters

MANUFACTURER & MODEL	Telebyte Technology Model 66	Teleprocessing Products, Inc. TP–350	Teleprocessing Products, Inc. TP–300	Teleprocessing Products, Inc. TP–200
DEVICE TYPE	Interface converter	Interface converter	Interface converter	Sync/async converter
CONVERSION PERFORMED	RS–232–C to RS–485	RS–232–C to V.35	RS–232–C to current AT&T 303	8-bit ASCII or 7-bit IBM async to sync
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	38.4K bps	9600	9600	75 to 19.2K
Synchronization	Asynchronous	Async/sync	Async/sync	Async/sync
Transmission mode	Half duplex	Half/full duplex	Half/full duplex	Half/full duplex,simplex
Protocols supported	X-on/X-off	—	—	—
Codes supported	All	All	All	ASCII
Interface	RS–232–C	1 RS-232-C and 1 V.35	1 RS-232-C and 1 current	RS–232–C
SPECIFIC DEVICES SUPPORTED	All	Any modem or DTE with RS–232–C or V.35 interface	Any modem or DTE with RS–232–C or AT&T 303 interface	Any async device with RS–232–C interface
CONNECTIONS SUPPORTED	Direct	Direct	Direct	Dial-up
DIAGNOSTICS	LEDs	Status LEDs	Status LEDs	Loopback switch
PRICING AND AVAILABILITY				
Purchase, $	120	Contact vendor	Contact vendor	Contact vendor
Serviced by		Vendor	Vendor	Vendor
Availability	—	Stock	Stock	30 days
Date of first comm. delivery of this model	January 1986	1978	1978	1979
Number installed to date	—	500	200	2000
COMMENTS	Offers programmable contention and line selection; implements low-cost LAN by interfacing RS–232–C equipment with networks based on new RS-485 standard	Provides bidirectional data and control signal conversion for adapting V.35 and RS–232–C interfaces	Designed as universal adapter; can provide patching and monitoring capability in network control centers	Suitable for polled, switched, or dedicated systems; allows device trans. ASCII or IBM data to operate with sync modem

MANUFACTURER & MODEL	Teleprocessing Products, Inc. TP–201	Teleprocessing Products, Inc. TP–200M	Universal Data Systems 210A/S-P	
DEVICE TYPE	Sync/async converter	Async/sync converter	Async/sync converter	
CONVERSION PERFORMED	Async term or comp. to sync modem or DDS	Async data to sync for op. with modem or DSU	Allows async. terminals to communicate via sync. modems	
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	1200 to 9600	110 to 9600	1200 to 9600 bps	
Synchronization	Async/sync	Async/sync	Async/sync	
Transmission mode	Half/full duplex,simplex	Half/full duplex	Half/full duplex	
Protocols supported	—	—	ASCII	
Codes supported	ASCII	ASCII	All	
Interface	RS–232–C	RS–232–C	RS–232–C	
SPECIFIC DEVICES SUPPORTED	Any async device with RS–232–C interface	Any async device with RS-232-C interface	Asynchronous terminals	
CONNECTIONS SUPPORTED	Dial-up	Dial-up	Direct	
DIAGNOSTICS	Loopback switch	Status LEDs, remote test	—	
PRICING AND AVAILABILITY				
Purchase, $	Contact vendor	Contact vendor	Contact vendor	
Serviced by	Vendor	Vendor	—	
Availability	30 days	30 days	30 days	
Date of first comm. delivery of this model	1984	1981	Info. not available	
Number installed to date	1000	500	Info. not available	
COMMENTS	Suitable for polled, switched, or dedicated systems	With async modems TP–200M offers speed-matching and error-correction	Operates with 7, 8, or 9 bits per character code. Implemented with LSI circuitry	

Code, Speed, Interface, and
Async/Sync Converters

MANUFACTURER & MODEL	Avanti Communications Model 100	Avanti Communications Model 110	Avanti Communications Model 120	Avanti Communications Model 130
DEVICE TYPE	Interface converter	Interface converter	Interface converter	Interface converter
CONVERSION PERFORMED	RS–232–C to V.35	RS–232–C to AT&T 301/303 current	V.35 to AT&T 301/303 current loop	AT&T 301/303 to V.35
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE
Synchronization	—	—	—	—
Transmission mode	—	—	—	—
Protocols supported	—	—	—	—
Codes supported	—	—	—	—
Interface	One V.35 (DCE), one RS–232–C	One 301/303, one RS–232–C	One V.35, one 301/303	One V.35, one 301/303
SPECIFIC DEVICES SUPPORTED	Any RS–232–C	Any RS–232–C	Any with V.35 interface	Any with AT&T 301/303 interface
CONNECTIONS SUPPORTED	Direct	Direct	Direct	Direct
DIAGNOSTICS	—	—	—	—
PRICING AND AVAILABILITY				
Purchase, $	550	1,000	1,150	1,225
Serviced by	Vendor	Vendor	Vendor	Vendor
Availability	30	30	30 days	30 days
Date of first comm. delivery of this model	June 1976	June 1976	June 1976	June 1976
Number installed to date	—	—	—	—
COMMENTS	Designed to interface DTE with RS–232–C interface to DCE with V.35; int. converter kit incl. one six-foot cable	Interfaces DTE with RS–232–C to DCE with current loop; converter kit incl. one six-foot cable	Interfaces DTE with V.35 to AT&T 301/303 modems	Permits data communications users to change wideband services from AT&T 301/303 modem interface to DDS V.35 interface

MANUFACTURER & MODEL	Avanti Communications Model 140	Avanti Communications Model 160	Avanti Communications Model 170	Com/Tech Systems RTS/Emulator A302
DEVICE TYPE	Interface converter	Interface converter	Interface converter	Transmission mode converter
CONVERSION PERFORMED	RS–232–C to neutral current loop	AT&T 301/303 current interface to RS–232–C	V.35 to RS–232–C	Full to half duplex; async to sync
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE	9600
Synchronization	—	—	—	Asynchronous
Transmission mode	—	—	—	Half/full duplex
Protocols supported	—	—	—	Asynchronous
Codes supported	—	—	—	Five to nine level codes
Interface	See comments	RS–232–C or AT&T 301/303	V.35, RS–232–C	RS–232–C
SPECIFIC DEVICES SUPPORTED	Any with RS–232–C	Any with AT&T 301/303 interface	Any with V.35 interface	Any
CONNECTIONS SUPPORTED	Direct	Direct	Direct	Direct, dial-up
DIAGNOSTICS	—	—	—	None
PRICING AND AVAILABILITY				
Purchase, $	315	750	550	390-450
Serviced by	Vendor	Vendor	Vendor	Factory
Availability	30 days	30 days	30 days	Two weeks
Date of first comm. delivery of this model	June 1976	June 1976	June 1976	1978
Number installed to date	—	—	—	—
COMMENTS	Allows RS–232–C interface equipment to be connected to Teletype equipment with neutral current loop; can also be used as a line driver	Converts AT&T 301/303 on terminal side to RS–232–C on communications side	Converts V.35 on terminal side to RS–232–C on the communications side	Includes 64 or 128 character buffer and break signalling

Code, Speed, Interface, and
Async/Sync Converters

MANUFACTURER & MODEL	Dataprobe DR–10	Dataprobe DR–15	DCC/Duracom Corporation ECS–10	DCC/Duracom Corporation ECS–20
DEVICE TYPE	Protocol converter	Code & Speed converter	Interface converter	Interface converter
CONVERSION PERFORMED	ASCII to Poll/Select	ASCII-Baudot-EBCDIC	RS–232–C to 20/60 mA	RS–232–C to 20 mA
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	9600	9600	9600 (2 miles)	9600 (2 miles)
Synchronization	Sync/async	Sync/async	Asynchronous	Asynchronous
Transmission mode	Half/full duplex	Half/full duplex	Half/full duplex	Half/full duplex
Protocols supported	TTY, 83B3	TTY, 83B3	Asynchronous	Asynchronous
Codes supported	ASCII, Baudot	ASCII, Baudot	Any	Any
Interface	Two RS-232–C, one current loop	RS-232–C, current loop	One RS–232–C, one 20/60 mA current loop	One RS–232–C, one 20 mA current loop
SPECIFIC DEVICES SUPPORTED	—	—	—	—
CONNECTIONS SUPPORTED	leased line	leased line	metallic path	metallic path
DIAGNOSTICS	Self-test	Self-test	Manual loopback tests	Manual loopback, LEDs on data/control lines
PRICING AND AVAILABILITY				
Purchase, $	750	750	99 (Qty. 1)	125
Serviced by	—	—	Factory service	Factory service
Availability	—	—	Stock to 30 days	Stock to 30 days
Date of first comm. delivery of this model	1983	1983	1977	1985
Number installed to date	250	75	2400	—
COMMENTS	Custom programs	Custom programs	Optical isolation for host/terminal protection high noise immunity; mutlidrop cap.; active/ passive interface to other 20/60 mA devices; long line driving cap.	Optical isolation; high noise immunity; long line driv.cap;interfaces 20 mA single & multidrop circuits; control chan. in ea. direction; LED data & control ln. indic

MANUFACTURER & MODEL	General DataComm ASC–1	Remark Datacom Models 64/65	Remark Datacom Series 63	Teleprocessing Products, Inc. TP–350
DEVICE TYPE	Async/sync converter	Interface converter	Interface converter	Interface converter
CONVERSION PERFORMED	Asynchronous to synchronous	RS–232–C to current loop	RS–232–C to RS–422	RS–232–C to V.35
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	9600	9600	19.2K	9600
Synchronization	Async/sync	Asynchronous	Asynchronous	Async/sync
Transmission mode	Half/full duplex,simplex	Half/full duplex	Half/full duplex	Half/full duplex
Protocols supported	—	—	—	—
Codes supported	ASCII	—	—	All
Interface	RS–232–C, V.24, V.28	RS–232–C, current loop	RS–232–C	One RS–232–C and one V.35
SPECIFIC DEVICES SUPPORTED	Asynchronous terminal	For use with teletypes or computers providing current loop input	—	Any modem or DTE with RS–232–C or V.35 inter-face
CONNECTIONS SUPPORTED	Direct, dial-up	Direct	Direct	Direct
DIAGNOSTICS	Loopback test (sync)	—	—	Status LEDs
PRICING AND AVAILABILITY				
Purchase, $	295	80/100	98/host; 126/self	Contact vendor
Serviced by	Factory	Telebyte	Telebyte	Vendor
Availability	30 days	14 days	14 days	Stock
Date of first comm. delivery of this model	1981	—	—	1978
Number installed to date	1000	1,000	1,000	500
COMMENTS	Automatically and dy-namically manages flow of data to avoid buffer overflow; accepts up to 2 percent continuous async input	Switch sel. DCE/DTE operation; model 64 host powered, model 65 self powered	Provides up to 4000 ft. transmission for data and three control sig-nals	Provides bidirectional data and control sig-nal conversion for adapting V.35 and RS–232–C interfaces

Code, Speed, Interface, and Async/Sync Converters

MANUFACTURER & MODEL	Teleprocessing Products, Inc. TP–300	Teleprocessing Products, Inc. TP–200	Teleprocessing Products, Inc. TP–201	Teleprocessing Products, Inc. TP–200M
DEVICE TYPE	Interface converter	Sync/async converter	Sync/async converter	Async/sync converter
CONVERSION PERFORMED	RS–232–C to current AT&T 303	8-bit ASCII or 7-bit IBM async to sync	Async term or comp. to sync modem or DDS	Async data to sync for op. with modem or DSU
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	9600	75 to 19.2K	1200 to 9600	110 to 9600
Synchronization	Async/sync	Async/sync	Async/sync	Async/sync
Transmission mode	Half/full duplex	Half/full duplex,simplex	Half/full duplex,simplex	Half/full duplex
Protocols supported	—	—	—	—
Codes supported	All	ASCII	ASCII	ASCII
Interface	One RS–232–C and one current	RS–232–C	RS–232–C	RS–232–C
SPECIFIC DEVICES SUPPORTED	Any modem or DTE with RS–232–C or AT&T 303 interface	Any async device with RS–232–C interface	Any async device with RS–232–C interface	Any async device with RS-232-C interface
CONNECTIONS SUPPORTED	Direct	Dial-up	Dial-up	Dial-up
DIAGNOSTICS	Status LEDs	Loopback switch	Loopback switch	Status LEDs, remote test
PRICING AND AVAILABILITY				
Purchase, $	Contact vendor	Contact vendor	Contact vendor	Contact vendor
Serviced by	Vendor	Vendor	Vendor	Vendor
Availability	Stock	30 days	30 days	30 days
Date of first comm. delivery of this model	1978	1979	1984	1981
Number installed to date	200	2000	1000	500
COMMENTS	Designed as universal adapter; can provide patching and monitoring capability in network control centers	Suitable for polled, switched, or dedicated systems; allows device trans. ASCII or IBM data to operate with sync modem	Suitable for polled, switched, or dedicated systems	With async modems TP–200M offers speed-matching and error-correction

Code, Speed, Interface, and Async/Sync Converters

MANUFACTURER & MODEL	Avanti Communications Model 100	Avanti Communications Model 110	Avanti Communications Model 120	Avanti Communications Model 130
DEVICE TYPE	Interface converter	Interface converter	Interface converter	Interface converter
CONVERSION PERFORMED	RS–232–C or MIL–188C to V.35	RS–232–C or MIL–188C to AT&T 301/303 current	V.35 to 301/303 current loop	AT&T 301/303 to V.35
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE
Synchronization	—	—	—	—
Transmission mode	—	—	—	—
Protocols supported	—	—	—	—
Codes supported	—	—	—	—
Interface	One V.35 (DCE), one RS–232–C or MIL–188C*	One 301/303, one RS–232–C or MIL–188C	One V.35, one 301/303	One V.35, one 301/303
SPECIFIC DEVICES SUPPORTED	Any RS–232–C or MIL–188C	Any RS–232–C or MIL–188C	Any with V.35 interface	Any with AT&T 301/303 interface
CONNECTIONS SUPPORTED	Direct	Direct	Direct	Direct
DIAGNOSTICS	—	—	—	—
PRICING AND AVAILABILITY				
Purchase, $	550	1,000	1,150	1,225
Serviced by	Vendor	Vendor	Vendor	Vendor
Availability	30	30	30 days	30 days
Date of first comm. delivery of this model	June 1976	June 1976	June 1976	June 1976
Number installed to date	—	—	—	—
COMMENTS	Designed to interface DTE with RS–232–C interface to DCE with V.35; int. converter kit incl. one six-foot cable *Spec. at time of order	Interfaces DTE with RS–232–C or MIL–188C to DCE with current loop; converter kit incl. one six-foot cable	Interfaces DTE with V.35 to AT&T 301/303 modems	Permits data communications users to change wideband services from AT&T 301/303 modem interface to DDS V.35 interface

MANUFACTURER & MODEL	Avanti Communications Model 140	Avanti Communications Model 150	Avanti Communications Model 160	Avanti Communications Model 170
DEVICE TYPE	Interface converter	Interface converter	Interface converter	Interface converter
CONVERSION PERFORMED	RS–232–C or MIL–188C to neutral current loop	RS–232–C to MIL–188C	AT&T 301/303 current interface to RS–232–C or MIL–188C	V.35 to RS–232–C or MIL–188C
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE	Governed by DCE/DTE
Synchronization	—	—	—	—
Transmission mode	—	—	—	—
Protocols supported	—	—	—	—
Codes supported	—	—	—	—
Interface	See comments	MIL–188C	RS–232–C or MIL–188C, AT&T 301/303	V.35, RS–232–C or MIL–188C
SPECIFIC DEVICES SUPPORTED	Any with RS–232–C or MIL–188C	Any with RS–232–C	Any with AT&T 301/303 interface	Any with V.35 interface
CONNECTIONS SUPPORTED	Direct	Direct	Direct	Direct
DIAGNOSTICS	—	—	—	—
PRICING AND AVAILABILITY				
Purchase, $	315	425	750	550
Serviced by	Vendor	Vendor	Vendor	Vendor
Availability	30 days	30 days	30 days	30 days
Date of first comm. delivery of this model	June 1976	June 1976	June 1976	June 1976
Number installed to date	—	—	—	—
COMMENTS	Allows RS–232–C or MIL–188C interface equipment to be connected to Teletype equipment with neutral current loop; can also be used as a line driver		Converts AT&T 301/303 on terminal side to RS–232–C on communications side	Converts V.35 on terminal side to RS–232–C or MIL–188C on the communications side

MANUFACTURER & MODEL	Com/Tech Systems RTS/Emulator A302	Dataprobe DR–10/DR–10A	Duracom Corporation ECS–10	General DataComm ASC–1
DEVICE TYPE	Transmission mode converter	Code and speed converter	Interface converter	Async/sync converter
CONVERSION PERFORMED	Full to half duplex; async to sync	ASCII to Baudot, ASCII to Telex	RS–232–C to 20 mA	Asynchronous to synchronous
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	9600	9600	9600 (2 miles)	9600
Synchronization	Asynchronous	Async/sync	—	Async/sync
Transmission mode	Half/full duplex	Half/full duplex	Half/full duplex	Half/full duplex,simplex
Protocols supported	Asynchronous	RS–232–C, HDLC	Asynchronous	—
Codes supported	Five to nine level codes	ASCII, Baudot, EBCDIC	—	ASCII
Interface	RS–232–C	Two RS–232–C, one current loop	One RS–232–C, one current loop	RS–232–C, V.24, V.28
SPECIFIC DEVICES SUPPORTED	Any	—	—	Asynchronous terminal
CONNECTIONS SUPPORTED	Direct, dial-up	—	—	Direct, dial-up
DIAGNOSTICS	None	Self-test, dynamic RAM	Manual loopback tests	Loopback test (sync)
PRICING AND AVAILABILITY				
Purchase, $	390-450	750/950 per line	99 (Qty. 1)	295
Serviced by	Factory	—	Factory service	Factory
Availability	Two weeks	30 days/90 days	Stock to 30 days	30 days
Date of first comm. delivery of this model	1978	January 1983/April 1984	1977	1981
Number installed to date	—	75/10	2000	1000
COMMENTS	Includes 64 or 128 character buffer and break signalling	System building block; three independent baud-rate generators; alarm outputs		Automatically and dynamically manages flow of data to avoid buffer overflow; accepts up to 2 percent continuous async input

MANUFACTURER & MODEL	Remark Datacom Models 64/65	Remark Datacom Series 63	Teleprocessing Products, Inc. TP–350	Teleprocessing Products, Inc. TP–300
DEVICE TYPE	Interface converter	Interface converter	Interface converter	Interface converter
CONVERSION PERFORMED	RS–232–C to current loop	RS–232–C to RS–422	RS–232–C to V.35	RS–232–C to current AT&T 303
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	To 9600	To 9600	To 9600	To 9600
Synchronization	Asynchronous	Asynchronous	Async/sync	Async/sync
Transmission mode	Half/full duplex	—	Half/full duplex	Half/full duplex
Protocols supported	—	—	—	—
Codes supported	—	—	—	—
Interface	RS–232–C, current loop	RS–232–C	One RS–232–C and one V.35	One RS–232–C and one current
SPECIFIC DEVICES SUPPORTED	For use with teletypes or computers providing current loop input	—	Any modem or DTE with RS–232–C or V.35 interface	Any modem or DTE with RS–232–C or AT&T 303 interface
CONNECTIONS SUPPORTED	—	—	Direct	Direct
DIAGNOSTICS	—	—	Status LEDs	Status LEDs
PRICING AND AVAILABILITY				
Purchase, $	Contact vendor	Contact vendor	Contact vendor	Contact vendor
Serviced by	Vendor	Vendor	Vendor	Vendor
Availability	—	—	—	—
Date of first comm. delivery of this model	—	—	—	—
Number installed to date	—	—	—	—
COMMENTS	Switch sel. DCE/DTE operation; model 64 host powered, model 65 self powered	Provides up to 4000 ft. transmission for data and three control signals; available as host-powered or self-powered units	Provides bidirectional data and control signal conversion for adapting V.35 and RS–232–C interfaces	Designed as universal adapter; can provide patching and monitoring capability in network control centers

MANUFACTURER & MODEL	Teleprocessing Products, Inc. TP-200	Teleprocessing Products, Inc. TP-201	Teleprocessing Products, Inc. TP-200M	Versitron R42M
DEVICE TYPE	Sync/async converter	Sync/async converter	Async/sync converter	Interface converter
CONVERSION PERFORMED	8-bit ASCII or 7-bit IBM async to sync	Async term or comp. to sync modem or DDS	Async data to sync for op. with modem or DSU	RS-232 to MIL-188C
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	75 to 19.2K	1200 to 9600	110 to 9600	100K
Synchronization	Async/sync	Async/sync	Async/sync	Async/sync
Transmission mode	Half/full duplex, simplex	Half/full duplex, simplex	Half/full duplex	Full duplex
Protocols supported	—	—	—	—
Codes supported	ASCII	—	—	—
Interface	RS-232-C	RS-232-C	RS-232-C	One RS-232-C, one MIL-188C
SPECIFIC DEVICES SUPPORTED	Any async device with RS-232-C interface	Any async device with RS-232-C interface	—	Any with RS-232-C or MIL-188C
CONNECTIONS SUPPORTED	Dial-up	Dial-up	—	Direct
DIAGNOSTICS	Loopback switch	Loopback switch	Status LEDs, remote test	—
PRICING AND AVAILABILITY				
Purchase, $	Contact vendor	Contact vendor	Contact vendor	368
Serviced by	Vendor	Vendor	Vendor	Factory
Availability	30 days	30 days	30 days	30-60 days
Date of first comm. delivery of this model	—	—	—	1981
Number installed to date	—	—	—	500
COMMENTS	Suitable for polled, switched, or dedicated systems; allows device trans. ASCII or IBM data to operate with sync modem	Suitable for polled, switched, or dedicated systems	With async modems TP-200M offers speed-matching and error-correction	Phase programmable, rackmount available, time source selectable; maximum speed depends on cable length

MANUFACTURER & MODEL	Versitron R42DSU	Versitron R42S	Versitron Relays	
DEVICE TYPE	Interface converter	Interface converter	Interface converter	
CONVERSION PERFORMED	V.35 to EIA/MIL	RS-232-C to 449 or MIL-188-144	EIA, MIL, TTY, WECO, etc.	
TRANSMISSION SPECIFICATIONS				
Maximum transmission, in bps	56K	500K	500K	
Synchronization	Synchronous	Synchronous	—	
Transmission mode	Full duplex	Full duplex	Half/full duplex	
Protocols supported	—	—	—	
Codes supported	—	—	—	
Interface	One V.35, one MIL/EIA	One RS-232-C, one RS-449 or MIL	Various	
SPECIFIC DEVICES SUPPORTED	Any with V.35 int.	Any with RS-232-C, 449, MIL-188-114	Various	
CONNECTIONS SUPPORTED	Direct	Direct	Direct	
DIAGNOSTICS	—	—	—	
PRICING AND AVAILABILITY				
Purchase, $	457	599	122-367	
Serviced by	—	Factory	Factory	
Availability	30-60 days	30-60 days	30-60 days	
Date of first comm. delivery of this model	1982	1981	1975	
Number installed to date	200	200	1000	
COMMENTS	Maximum speed depends on cable length	Maximum speed depends on cable	Forty-four models with multiple interface options, some with multiple circuits; requires chassis	