

Chapter 10

Specifications and Ordering

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Physical Characteristics

Standalone Unit

Height: 2.3 in. (15.8 cm)

Width: 6.6 in. (16.8 cm)

Depth: 9.6 in. (24.4 cm)

Weight: 2.5 lb (1.1 kg)

Heat Output: 37.5 BTUs

Environmental Limits

Operating Conditions

Temperature: 32° to 122° F (0° to 50° C)

Maximum Rate of Change: 36° F (20° C) per hour

Relative Humidity: 5 to 95% (noncondensing)

Altitude: 10,000 ft (3048m) maximum

Vibration: .5 G peak overall from 5 to 500 Hz, .010 in double amplitude, at a sweep rate of 1 octave per minute in all three orthogonal axes.

Shock: Half-sine shock pulse with a measured magnitude of 10 G peak and 10 ± 3 ms duration in all three orthogonal axes.

Radiated/Conducted Emissions: Complies with the limits for a Class A computing device, pursuant to Subpart J of Part 15 of the FCC rules and CISPR publication 22.

Nonoperating Conditions

Temperature: -40° to 158° F (-40° to 70° C)

Humidity: 5 to 95% (noncondensing)

Altitude: 35,000 ft (10,668m) maximum

Shock and Vibration: In approved shipping container, conforms to the requirements of the National Safe Transit Association Preshipment Test Specification.

Operating Mode

Full-duplex, point-to-point, and multipoint

Digital Dataphone Service

Restoral: V.32 and V.32 bis

Digital Data Services

DDS-I

2.4, 4.8, 9.6, 19.2, and 56 kbps

DDS-II SC

3.2, 6.4, 12.8, 25.6, and 72 kbps providing primary channel rates of 2.4, 4.8, 9.6, 19.2, and 56 kbps, respectively, plus secondary channel

64k CC

64 kbps providing a primary channel rate of 62.4 kbps, plus secondary channel

Digital Port Interfaces

User-selectable EIA/TIA 232-D-compliant or V.35-compatible electrical interfaces

Data Format

Synchronous: serial binary

Asynchronous: serial binary 6 to 9 data bits (including parity bit) per character

Data Encoding

Bipolar, return to zero

Timing

Network, internal, external, station (station timing can be derived from any port)

DTE Port Rates

DDS-I and DDS-II SC Point-to-Point and DDS-I Multipoint

<i>Synchronous (kbps)</i>	<i>Asynchronous (kbps)</i>
1.2	1.2
2.4	2.4
4.8	4.8
7.2	7.2
9.6	9.6
14.4	14.4
16.8	19.2
19.2	
21.6	
24.0	
28.8	
32.0	
38.4	
48.0	
56.0	

DDS II-SC Multipoint

<i>Synchronous (kbps)</i>	<i>Asynchronous (kbps)</i>
2.4	2.4
4.8	4.8
9.6	9.6
19.2	19.2
56.0	

Derived Secondary Channel Mode (BitSteal)

<i>Maximum Rate</i>	
<i>Port (bps)</i>	<i>Line (bps)</i>
2290	2400
4688	4800
9487	9600
19019	19200
55200	56000
62400	64000
With standard DTE port rates available (point-to-point only)	

Synchronous Data Compression (SDC)

<i>Maximum Rate</i>	
<i>Port (bps)</i>	<i>Line (bps)</i>
2290	2400
4688	4800
9487	9600
19019	19200
55200	56000
62400	64000
With standard DTE port rates available (point-to-point only)	

Switched Digital Restoral

<i>Maximum Rate</i>	
<i>Port (bps)</i>	<i>Line (bps)</i>
56000	56000
With standard DTE port rates available (point-to-point only)	

Network Control Channel

Data format: Asynchronous, serial, binary, compatible with Motorola Network Management Systems

Data rate: Selectable, 75 and 150 bps

Receiver

Standard automatic line buildout and gain control

Primary Power Requirements—Standalone Unit

100 to 120 VAC nominal, 47 to 63 Hz, 11W maximum line power consumption, including options:

- UL listed
- CSA certified

Ordering Information

Refer to Table 10-1 when ordering the 3512 DSU/CSU and features. All orders require a base unit product code. Refer to Appendix A for cable requirements.

Table 10-1.
3512 DSU/CSU Ordering Information

<i>Item</i>	<i>Product Code</i>	<i>Description</i>
3512 DSU/CSU	48388	Standalone 1-channel 3512 with 15-ft RJ48S to RJ48S telco cable, wall-mount power supply, user manual, DB25 DTE connector
	48389	3512 1-channel nest card with 15-ft RJ48S to RJ48S telco cable, DB25 DTE connector, nest rear panel
Network-Managed 3512 DSU/CSU	48390	Standalone 1-channel 3512 with 15-ft RJ48S to RJ48S telco cable, wall-mount power supply, user manual, DB25 DTE connector, network control adapter cable
	48391	3512 1-channel nest card with 15-ft RJ48S to RJ48S telco cable, DB25 DTE connector, nest rear panel, network control adapter cable
4-channel TDM Point to Point Feature	48392	4-channel time-division multiplexing, point-to-point; adds Ports 2, 3, and 4 to 3512; three DB26-pin subminiature DTE connector cables
4-channel TDM Multipoint feature	48393	4-channel time-division multiplexing, multipoint; adds Ports 2, 3, and 4 to 3512; three DB26-pin subminiature DTE connector cables
DualVIEW feature	48394	DualVIEW; available with Product Codes 48390 and 48391
Integral SLR feature	48395	Integral Single Line Restoral for V.32 bis; 15-ft RJ45S to RJ45S telco cable
Switched-56 feature	48396	3512 4-wire Switched-56 restoral option; 15-ft RJ48S to RJ48S telco cable. For use with these product codes: 48388, 48389, 48390, and 48391.