

E1 Dual-port DSU/CSU



The **DataSMART® MAX™** from Kentrox multiplexes video and data traffic onto a single wide area network circuit, and provides the DSU/CSU functionality required to terminate E1/FE1 public network services. Multiplexing different traffic types takes advantage of unused bandwidth, making E1/FE1 links more efficient. The DataSMART E1 MAX also provides access to Frame Relay, Internet and leased-line services.

For your management requirements, the DataSMART MAX DSU/CSU includes an embedded SNMP agent. A comprehensive enterprise MIB is also supported, giving you complete control of the DataSMART MAX.

Features

- **Supports Frame Relay, Internet and leased-line services**
- **Embedded SNMP agent and enterprise MIB ensure complete management control**
- **Optional Ethernet connectivity provides easy access to SNMP agent**
- **Offers powerful in-band management options**
- **Front-panel LCD and LEDs simplify on-site setup and troubleshooting**
- **Provides compatibility with all leading data and video equipment**
- **DataSMART Installer included at no charge**
- **Alarms Utility available as a free download from the Kentrox web site**
- **5-year manufacturer's warranty**

DataSMART® E1 MAX™

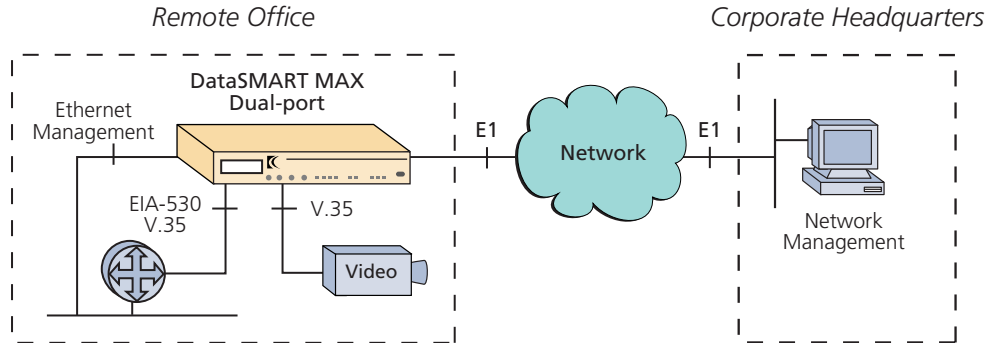


Figure 1: With its Ethernet connection, the DataSMART MAX can be remotely managed in-band from the corporate office.

Multiplexer Functionality

The DataSMART MAX multiplexes video and data equipment into various PTT services, enabling you to make the most efficient use of your E1 bandwidth. Video and data devices connect via the selectable V.35/EIA-530 interfaces. Additionally, optional X.21 and RS449 adapters are available for further flexibility.

Performance Monitoring and Alarms

The DataSMART MAX DSU/CSU delivers easy-to-use performance reports, alarms and diagnostic control of your E1/FE1 network. Armed with this information, you can identify performance faults and network problems, and trend the long-term performance of your network. Advanced reports and features include:

- Last seven days of E1 performance history and line status
- Last 20 network alarms
- Integrated BERT tester and code generator

Standards-based management

For your management requirements, the DataSMART MAX includes an embedded SNMP agent. The agent supports SETs, GETs and Traps, as well as the standard MIBs. For comprehensive control, an enterprise MIB supports all available functions. In addition, a Telnet server is included,

allowing direct access to the DataSMART MAX menus through the network. Remote access to the unit is available through RS-232 control ports or an optional 10Base-T connection.

Easy installation and diagnostics

Shipped free with every unit, DataSMART Installer is an intuitive, Windows-based configuration and diagnostic utility. DataSMART Installer dramatically reduces setup time, by walking the user through the process using a series of Windows-based templates. For easy local installation and troubleshooting, the DataSMART MAX also provides a front-panel LCD and diagnostic LEDs.

Alarms Utility

The Alarms Utility software monitors the network for interface and device errors, posting them to the event log in HP OpenView®. Custom icons uniquely identify all Kentrox devices for easy recognition on the Network Node Manager topology map.

DataSMART® E1 MAX™

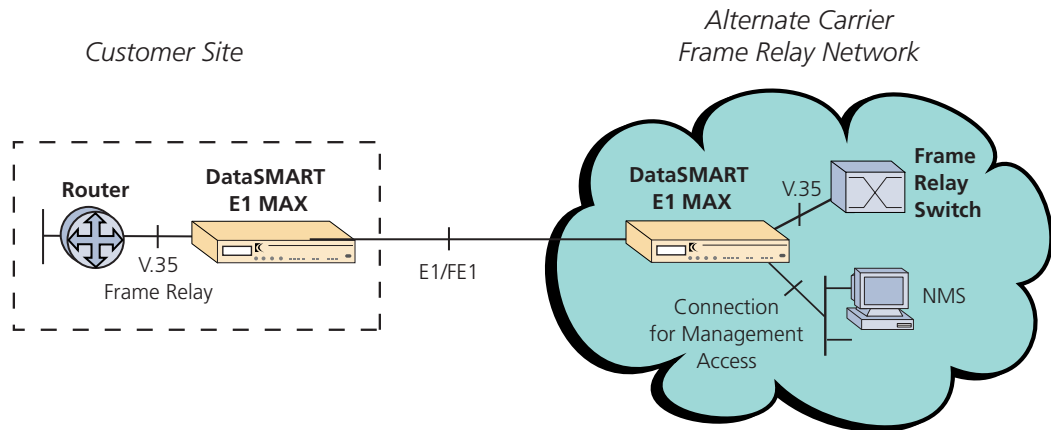


Figure 2: With a DataSMART E1 MAX installed at both the carrier and end-user network locations, an in-band management path is available for the network manager to monitor and manage the remote unit.

Specifications

NETWORK INTERFACE

- Line Rate:** E1 (2.048 Mbps)
- Framing:** G.704
- Line Code:** HDB3
- Mechanical:** DA15 socket for 120, Adapter for 75 BNC

DATA PORT INTERFACE

- Bit Rate:** Nx64 kbps (N=1...31)
- Electrical:** V.35 compatible (DB25 socket) or EIA-530, RS-449/V.36 (with optional adapter) and X.21/V.11 (with optional adapter)

MANAGEMENT

- Control Ports:** DCE and DTE
- EIA-574 (RS-232)
- DE9 socket (DCE)
- DE9 plug (DTE)
- Daisy chain
- 38.4 kbps maximum
- English menus
- Async ASCII or SLIP
- Ethernet Connection:** Optional 10Base-T PCMCIA adapter
- SNMP Agent:** MIB II (RFC 1213)
- E1 MIB (RFC 1406)
- Enterprise MIB
- Telnet (RFC 854)
- Responds to PING
- Security filters (for IP source addresses)
- Up to 10 SNMP Trap hosts

ALARMS

- Traps:** SNMP Traps via SLIP or via Ethernet
- ASCII:** Transmitted out async control port

DIAGNOSTICS

- LEDs:** Network interface status, data port status, power/fail, test active
- LCD:** Front panel for configuring, testing, and display of unit status
- Loop Tests:** Line loopback, payload loopback, local loopback, terminal loopback, data terminal loopback, data port loopback

DIAGNOSTICS (CONTINUED)

- Line Test Codes:** 2¹⁵⁻¹, 2²³⁻¹
- Data Test Codes:** 511, 2047
- BERT Tester:** Independent BERT on all test codes
- Monitor Jacks:** Network interface, transmit and receive

PERFORMANCE MONITORING

- Data Storage:** Last 24 hours of data in 15 minute increments; last 7 days of data in 24-hour increments
- Monitors:** Network and terminal interface
- Reports:** Based on G.821 for performance
- Far end, alarm history, and network interface statistical

REGULATORY (CALL FOR CURRENT STATUS)

- BABT:** NTR4
- BZT:** CTR 12, BAPT 221 ZV MU 9 a/b
- ETL:** NRTL listed to UL 1950, 3rd edition
- FCC:** Part 15

STANDARDS

- ITU-T:** NTR4
- Safety:** CTR 12, BAPT 221 ZV MU 9 a/b
- EMI/EMC:** EN50081-1, EN50082-1

ENVIRONMENT

- Operating:** 0° to 50° C
- 5% to 90% RH, non-condensing
- Storage:** -20° to 66° C, 5% to 90% RH

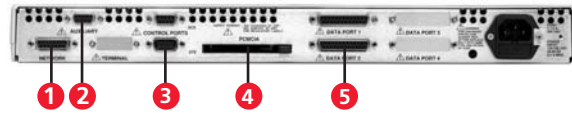
POWER

- AC:** 85 to 265 VAC, 47 or 63 Hz, 18W

PHYSICAL

- Usage:** Desktop or rack mount (19" or 23")
- Dimensions:** 43.2 cm W x 4.8 cm H x 29.2 cm D
- Weight:** 3.3 kg (approximate)

DataSMART® E1 MAX™



Ordering Information

Description	Catalog Number
DataSMART E1 MAX Dual-port DSU, AC	72521
1 TO NETWORK INTERFACE DA15P to DA15S DA15P to Stub DA15P to RJ48C Plug DA15P to DA15P DA15P to RJ48C Jack Adapter DA15P to 2x 75 ohm BNC Jack Adapter BNC Plug to BNC Socket (requires 77895 Adapter) BNC Plug to BNC Plug (requires 77895 Adapter) DA15P to DA15P, DCE to DCE, 10 feet (3 m) DA15P to Barrier Strip Adapter	930xx091 930xx101 930xx121 930xx131 77892 77895 960xx009 960xx010 93010132 77993003
2 TO AUXILIARY PORT	
3 TO CONTROL PORT (DCE/DTE) DE9S to DE9P, 6 feet (2.4 m) DE9S to RJ45 Jack Adapter DE9S to DB25P, 5 feet (2 m) DataSMART Installation Kit	95006022 78899 95005023 78891
4 TO PCMCIA Optional PCMCIA Card, 10Base-T (for SNMP Management)	98101
5 TO DATA EQUIPMENT <u>V.35</u> DB25P to MRAC34P DB25P to MRAC34P, (DCE to DCE), 10 feet (3 m) DB25P to MRAC34S, 1 foot (0.3 m) DB25P to MRAC34S (Wellfleet) Adapter <u>EIA-530</u> DB25P to DB25P, 10 feet (3 m) DB25P to DB25P (DCE to DCE), 10 feet (3 m) DB25P to DC37P (EIA-530 to RS449), 10 feet (3 m) DB25P to DC37S (EIA-530 to RS449) <u>X.21</u> DB25P to DA15S, X.21 Adapter DB25P to DA15P DB25P to DA15S POWER CORDS North American Power Cord European EC Power Cord United Kingdom Power Cord Italian Power Cord Australian Power Cord	950xx054 95010073 95001074 78906 95010061 95010058 95010066 950xx042 78902 950xx063 950xx064 90000 90001 90002 90003 90004

Note: xx denotes length of cable. Contact factory for available lengths. DA, DB, DC, DE designate the size of the shell that encapsulates the cable connector. P=Plug (male); S=Socket (female).



Web Site: www.kentrox.com

Phone: 503-643-1681 • Toll Free: 800-733-5511 • Fax: 503-350-6897

Kentrox, LLC., 20010 NW Tanasbourne Drive, Hillsboro, OR 97124
 Kentrox, AAC-3, CellSMART, DataSMART, T-SMART, E-SMART, T-SERV and D-SERV are registered trademarks of Kentrox, LLC. AAC, AAC-2, FrameVision, ServicePoint, ServicePoint Manager, CrossPATH, M-PATH and Satellite are trademarks of Kentrox, LLC. All other products are trademarks of their respective owners. Specifications published here are current as of the date of publication of this document. At any time, you may verify product specifications by contacting our headquarters in Hillsboro.

05-04-023 7/03 Copyright © 2003 by Kentrox, LLC. All Rights Reserved. An Equal Opportunity Employer.