

T1/FT1 Multi-port DSU/CSUs



DataSMART® MAX™ T1/FT1 multi-port DSU/CSUs from Kentrox help you consolidate traffic at remote sites, and save access charges month after month. By leveraging unused bandwidth and merging voice, data and video traffic onto a single T1 link, you can reduce the number of T1/FT1 lines needed for WAN access.

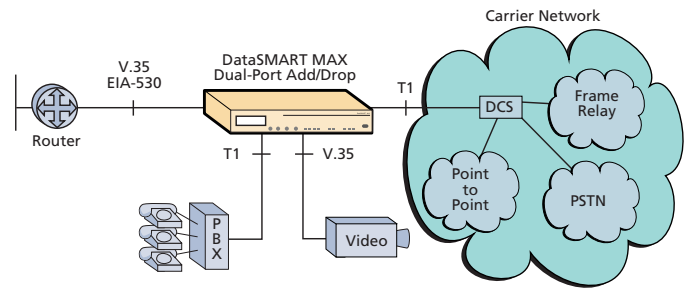
DataSMART MAX DSU/CSUs maximize your network uptime with convenient features, such as optional 10Base-T Ethernet for simplified management. Each DSU/CSU includes a front-panel LCD for easy local setup and management, along with support for standards-based SNMP management.

Features

- Voice, data and video multiplexing
- Standards-based SNMP management
- Optional Ethernet connection for SNMP and Telnet management
- Front-panel LCD and LEDs for simple setup and troubleshooting
- Software-selectable data ports for flexibility (V.35 and EIA-530)
- Free DataSMART Installer for Windows and Alarms Utility software
- Compatible with all major routers, video codecs, voice PBX and other customer premise equipment
- Supports leased-line, Internet, Frame Relay and frame-based SMDS/ATM DXI network services
- 5-year manufacturer's warranty

Easy installation and diagnostics

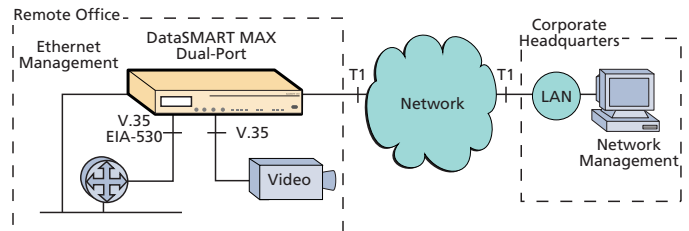
Shipped free with every unit, DataSMART Installer is an intuitive, Windows-based configuration and diagnostic utility. DataSMART Installer dramatically reduces setup time, by walking the user through the process using a series of Windows-based templates. For easy local installation and troubleshooting,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



The DataSMART MAX add/drop DSU/CSU supports voice over the public switched telephone network (PSTN), Frame Relay data traffic, and point-to-point applications.

Performance monitoring and alarms

To help you resolve performance problems on your circuit, DataSMART MAX DSU/CSUs provide comprehensive T1 diagnostic tools. You can diagnose degradation of your T1/FT1 circuit, and resolve it with your carrier before it affects service. With the DataSMART MAX, you can also download software upgrades, receive traps for important network events, and receive remote alarms.



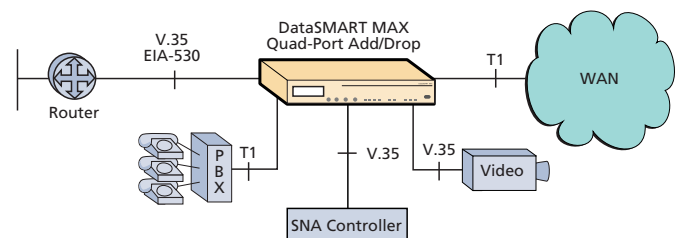
With its optional Ethernet connection, the DataSMART MAX can be remotely managed in-band from the corporate office.

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, such as MIB II and the T1 MIB. 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 RS232 control ports or an optional 10Base-T connection.

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.



The DataSMART MAX quad-port add/drop DSU/CSU has enough ports to handle more complicated voice, video and data integration applications.

Specifications

NETWORK INTERFACE

Line Rate: T1 (1.544 Mbps)
Framing: SF, ESF, Ericsson
Line Code: AMI, B8ZS
Input Signal: DS-1 from 0 dB to -27 dB, typical
Output Signal: DS-1 with LBO 0, -7.5, -15 dB (selectable)
Mechanical: DA15 plug
Lightning Protection: Withstands lightning surges defined per FCC Part 68, and recovers

TERMINAL INTERFACE (ADD/DROP PORT)

Line Rate: T1 (1.544 Mbps)
Framing: SF, ESF, Ericsson
Line Code: AMI, B8ZS
Input Signal: DSX-1 to -10 dB
Output Signal: DSX-1 with equalization
Mechanical: DA15 socket

DATA PORT INTERFACE (SELECTABLE)

Bit Rate: Nx56 kbps or Nx64 kbps (N=1...24)
Electrical: V.35 compatible, DB25 socket or EIA-530/RS449, DB25 socket

MANAGEMENT

Control Ports: DCE and DTE
EIA-574
DE9 socket and plug
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)
DS1 MIB (RFC 1406)
Enterprise MIB
TELNET server
Responds to PING
Security filters (for IP source addresses)
Up to 10 SNMP Trap hosts
In-band: Via external router
In-band Menus: Via external router

ALARMS

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

DIAGNOSTICS

LEDs: Network interface status, terminal 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
Line Test Codes: QRS, 3-in-24, 1-in-8, All 1s, All 0s
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
Registers Reports: Separate for carrier and user
Based on G.821 for performance
Far end, alarm history, and network interface statistical reports

COMPATIBILITY

AT&T: TR 54016-1989, TR 62411-1990, TR 54019A
PUB 43802
ANSI: T1.403-1995
Bellcore: TR.194

REGULATORY

FCC Compliance: Part 68; Part 15, Class A
NRTL Listed: UL 1950, 3rd Edition
CSA: 22.2; No. 950
IC: CS-03

ENVIRONMENT

Operating: 0° to 50° C
5% to 90% RH, non-condensing
Storage: -20° to 66° C, 5% to 95% RH

POWER

AC: 110 to 240 VAC, 50 or 60 Hz, 18W
DC: 24 to 48 VDC, 14W, dual power inputs

PHYSICAL

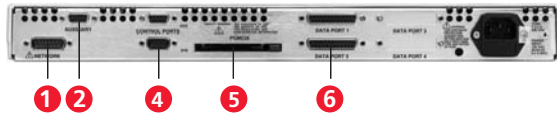
Usage: Desktop or rack mount (19" or 23")
Dimensions: 17.5" W x 1.72" H x 11.5" D
Weight: 7 lbs. (approximate)

Ordering Information

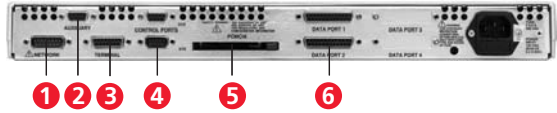
Description	Catalog Number
DataSMART T1 MAX Dual-port, AC	72561
DataSMART T1 MAX Dual-port, Add/Drop, AC	72761
DataSMART T1 MAX Dual-port, Add/Drop, DC	72765
DataSMART T1 MAX Quad-port, Add/Drop, AC	72771
DataSMART T1 MAX Quad-port, Add/Drop, DC	72775
Optional 10Base-T PCMCIA Adapter	98101

DataSMART® MAX™

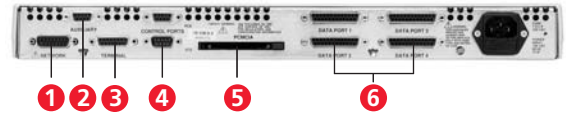
DataSMART T1 MAX Dual-port DSU/CSU



DataSMART T1 MAX Dual-port, Add/Drop DSU/CSU



DataSMART T1 MAX Quad-port, Add/Drop DSU/CSU



Ordering Information

Description	Catalog Number
1 NETWORK INTERFACE	
DA15S to DA15P	930xx091
DA15S to RJ48C Plug	930xx151
DA15S to Stub	930xx111
DA15S to RJ48C Jack Adapter	77891
DA15S to Barrier Strip Adapter	77993004
2 AUXILIARY PORT	
3 TO TERMINAL EQUIPMENT	
DA15P to Stub	930xx101
DA15P to DA15S	930xx091
DA15P to RJ48C Plug	930xx121
DA15P to DA15P	930xx131
DA15P to DA15P, Crossover	93005132
DA15P to RJ48C Jack Adapter	77892
DA15P Plug to Barrier Strip Adapter	77993003
4 CONTROL PORT (DCE/DTE)	
DE9S to DE9P, 6 feet	95006022
DE9S to RJ45 Socket Adapter	78899
DE9S to DB25P	95005023
DataSMART Installation Kit	78891
5 10BASE-T LAN	
Optional PCMCIA Card, 10Base-T	98101
6 TO DTE EQUIPMENT	
<u>V.35</u>	
DB25P to MRAC34P, 10 feet	95010054
DB25P to MRAC34P, (DCE to DCE)	95010073
DB25P to MRAC34S	95001074
DB25P to MRAC34S (Wellfleet Adapter)	78906001
<u>EIA-530</u>	
DB25P to DB25P, 10 feet	95010061
DB25P to DB25P, (DCE to DCE)	95010058
DC25P to DB37P (EIA-530 to RS449)	95010066
DC25P to DB37S (EIA-530 to RS449)	950xx042

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

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