

# Single-port T1 DSU/CSU



The DataSMART® 656 single-port DSU/CSU is designed to cost-effectively connect your LAN to your corporate network or to the Internet. This DataSMART operates at T1 and fractional T1 rates from 56k to 1.536 Mbps in increments of Nx56 or Nx64 Kbps. The DataSMART 656 operates on point-to-point or Frame Relay networks.

The DataSMART 656 is easy to install and maintain using the front panel LCD display or via Telnet or SNMP. The front panel LCD and LEDs indicate signal status and alarms while multiple loopbacks aid troubleshooting. Independent BERT functionality allows the user to send and detect varying test codes.

Fully SNMP compliant, the DataSMART 656 can be managed by any SNMP manager. Built in Ethernet and RS-232 control ports provide management interface for local management. In-band management allows end-to-end visibility in most networks.

### Features

- Connects router, video or any other other serial application
- Supports SNMP and Telnet
- Built in Ethernet management port
- Extensive loopbacks
- Independent BERT
- Front panel LCD display
- DataSMART Installer included at no charge
- Alarms Utility available as a free download from the Kentrox web site
- 5-year manufacturer's warranty

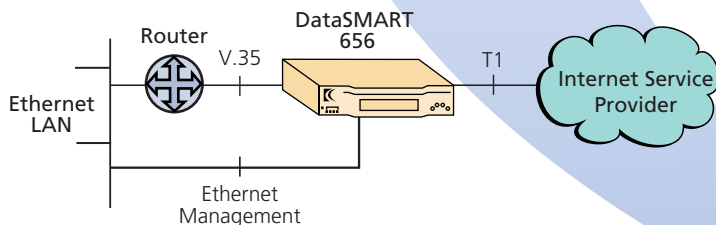


Figure 1: The DataSMART 656 quickly and easily provides managed connectivity for data or other high-speed serial applications.

# DataSMART® 656

## Specifications

### NETWORK INTERFACE

- Line Rate:** Internal or external clock;  
1.544 Mb/s ± 50 bps
- Line Code:** AMI or B8ZS (selectable)
- Line Impedance:** 100 ohms ± 10 ohms at 772 kHz
- Lightning Protection:** Withstands lightning surges defined per FCC Part 68, and recovers
- Framing Format:** SF or ESF per ANSI T1.403-1989, and TR-54016-1989; Ericsson Framing (defined as valid F<sub>T</sub> bits only)
- Input Level:** DSX-1 to -27.5 dB
- Input Jitter Tolerance:** Per TR 62411-1990 (p.4.7.1)
- Output Level:** Per ANSI T1.403-1989  
3.0 Volt peak ± 10% into 100 ohms at output connector
- Input Signal:** Tolerant to impedance mismatches
- Line Build Out:** 0, 7.5, 15.0 selectable
- Output Jitter:** TR 62411-1990 (p.4.7.3)
- Mechanical:** DA15P (DB15 Male)

### DATA PORT INTERFACE

- Bit Rates:** 56 kHz to 1536 kHz
- Mechanical:** 34-pin MRAC34S connector
- Electrical Interface:** V.35 compatible
- Interface Type:** DCE

### MANAGEMENT

- Control Ports:** DE9 Plug (DTE); DE9S Socket (DCE)
- Baud Rates:** 2400, 9600, 19200, 38400
- SNMP Agent:** MIB II (RFC 1213), DS1 MIB (RFC 1406), Enterprise MIB (available at [www.kentrox.com](http://www.kentrox.com)). Telnet Server; responds to PING; security filter for IP source addresses; up to 10 SNMP trap hosts
- In-band:** FDL or dedicated DSO

### 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° C to 66° C (5% to 65% RH)
- AC Input Range:** 85 to 130 VAC, 47 to 63 Hz
- Power Interruptions:** Loss of power does not damage the unit. Loss of power for less than 5 years does not change the configuration settings which may have been set by the user. Loss of power for less than 2 hours (nominal) does not affect the real-time clock setting.

### POWER

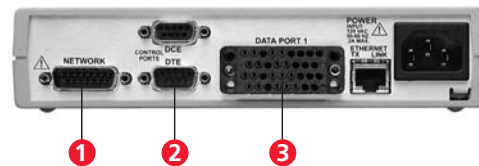
- AC:** 115 VAC, 60 Hz, 7W

### PHYSICAL

- Usage:** Desktop or tray mount
- Dimensions:** 7.75" W x 1.65" H x 11.5" D
- Weight:** 2.5 lbs (approx.)

### WARRANTY

- Hardware:** 5 years



### Ordering Guide

| Description                                          | Catalog Number |
|------------------------------------------------------|----------------|
| DataSMART 656 T1 DSU/CSU                             | 72656          |
| Mounting Tray for 1 unit                             | 78031          |
| Mounting Tray for 9 units                            | 78032          |
| Tray Retaining Clips for 1 Tray (Wall Mount)         | 78031100       |
| 19" Tray Center Support for Two Trays                | 78031200       |
| 23" Tray Center Support for Two Trays                | 78031300       |
| <b>1 To Network</b>                                  |                |
| DA15S to RJ48CP Cable                                | 930xx151       |
| DA15S to RJ48C Jack Adapter (ships with unit)        | 77891          |
| <b>2 To Control Port</b>                             |                |
| DE9S to DE9P, 6 feet                                 | 95006022       |
| <b>3 To Data Port</b>                                |                |
| MRAC34P to MRAC34P (V.35), 10 feet, straight through | 95010052       |

NOTE: xx denotes length of cable, contact factory for available lengths. P = Plug (male); S = Socket (female)



**Web Site:** [www.kentrox.com](http://www.kentrox.com)

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