

MuxMaster/ Wideband IAD Loop-V4200-9

CSU/DSU, E1/T1 Converter, & DACS

The truly Integrated Access Device can support, control, and multiplex a wide variety of devices.

Features

- 9 hot plug-in capable slots
- Available plug-in types:
 - T1, E1 interface cards
 - V.35, EIA530, RS232, X.21 interface cards
 - QFXS, QFXO, PLAR, E&M interface cards
 - MDSL, G.shdsl interface cards
 - T1/ E1 ATM Frame Relay interface cards
 - Router interface card with Subnet management (SNMC)
 - G.703 (co-directional) interface card
 - OCU DP interface card
 - Terminal Server interface card
 - Fiber Optical Interface Card
- Usable as a CSU/DSU, E1 to T1 converter, multiple CSUs, or a DACS.
- Full TSI capability among all slots in main unit.
- Remote diagnostic capabilities.
- 2-line by 40-character LCD display for maintenance, performance monitoring, and administration.
- Management through Console port, Ethernet port, and SNMP agents.
- Inband Subnet Management facility for remote management through national networks.
- LED indicators for power, test, alarm, and each of 9 ports.
- Field changeable AC power supply, or dual feed dual DC power supply.
- Software field upgradeable through download.
- Optional GUI NMS with LoopView.



Description

The Loop-V4200-9 is a versatile 9-port device. Depending on the plug-in cards selected, this unit can be configured (a) as a CSU/DSU with drop and insert and voice capabilities, (b) as a 4 E1 to 5 T1 converter or fractions of them, (c) as a digital cross-connect system (DACS), (d) as sets of ICSU combined in one box, and (e) as a channel bank. As a CSU/DSU, data from the V.35 or X.21 port can occupy any fraction of an E1 or T1 port. As an E1 to T1 converter, A to μ law and coding and signaling conversions are correctly handled. For both E1 and T1 ports, continuous error checking, performance polling, and in-service diagnostics are provided. In any of the above combinations, full time slot interchange (TSI) among the ports are possible, making the Loop-V4200-9 a small DACS (digital access cross-connect system). The ports can further be used in pairs as ICSUs (intelligent CSU) at lower cost and smaller space than individual ICSUs. Lastly, the Loop-V4200 can be configured as a channel bank.

The Loop-V4200-9 supports local control and diagnostics by using a 2-line by 40-character LCD display and keypads on the front panel, or by using a VT-100 terminal connected to the console port. The Loop-V4200-9 also supports Ethernet, Telnet, and SNMP, so it can be controlled and diagnosed from remote locations. The Loop-V4200-9 also supports inband Management, where management data is carried the same way as user data, traversing national networks.

In addition to the LCD display, 12 multicolor LEDs provide status indication for power, test condition, alarm, and each of the 9 ports. Internal firmware is stored in flash memory so that future software upgrades can be downloaded.

Loop-V4200-9 MuxMaster/ Wideband IAD Product Specifications

Time Slot Interchange

Less than 400 μ s delay
 One active map, one user stored map

Voice Channel Conversion

A-law to μ -law G.711
 CAS Signaling Transparent, (A=0 from E1 becomes A=0 to T1, etc.)

Electrical Power

Field changeable 30W 24Vdc or 30W 48Vdc power supply module
 DC : 24Vdc, 3A Max. (12-36Vdc)
 48Vdc, 1.6A Max. (36-72Vdc)
 AC : 90 to 240 Vac, 50/60 Hz, 2A Max.

Physical

Dimensions 428.8 x 43.5 x 331.3 mm. (WxHxD)
 Temperature Range 0 – 50 °C
 Humidity 0 – 95% RH (non-condensing)
 Mounting Desk-top stackable, 19/23 inch rack mountable
 Weight 7.7 lb., (3.5Kg) without plug-in cards

Performance Monitor

Performance Store The last 24 hours performance in 15-minute intervals
 Monitor Registers Line, user
 Performance Reports Date & Time, Errored Second, Degraded Minutes, Unavailable Second, Bursty Errored Second, Severe Errored Second, Controlled Slip Second, and Loss of Frame Count
 Alarm History Date & Time, Alarm Type (i.e. Master Clock Loss, RAI, AIS, LOS, BPV, ES, CS)
 Threshold Bipolar Violation, Error Second, Unavailable Second, Controlled Slip Second

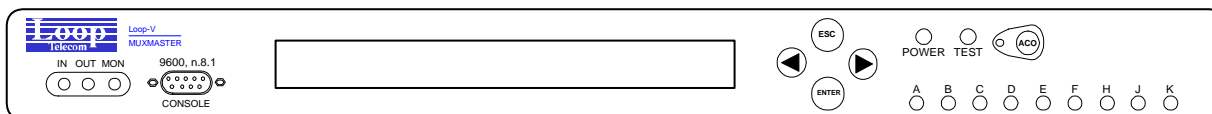
Network Management

Connector DB9 at front panel
 Electrical RS232 interface
 Protocol Menu driven VT-100 terminal

Ethernet Port (optional)

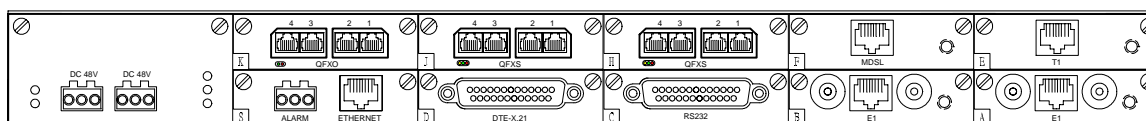
Connector RJ45 in rear
 Protocol Telnet and Embedded SNMP

Front Panel



Keypads 5 keys, ACO (alarm cut-off), left and right arrows, ESC, and ENTER
 LCD 2 lines by 40 characters LCD display
 LED 12 - one for each of 9 plug-in slots, power, test, and alarm
 Bantam Jacks Network IN, OUT, and Monitor

Rear Panel

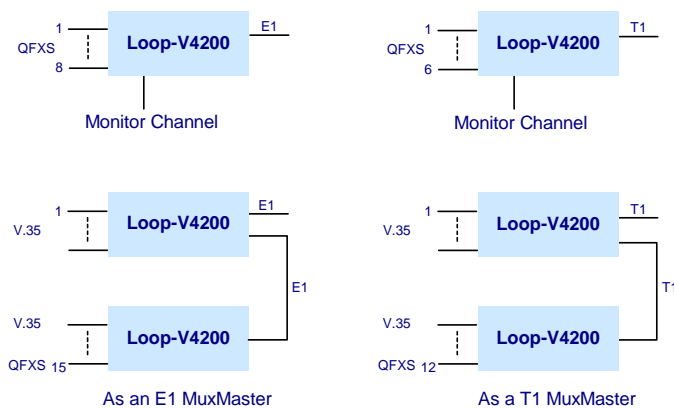
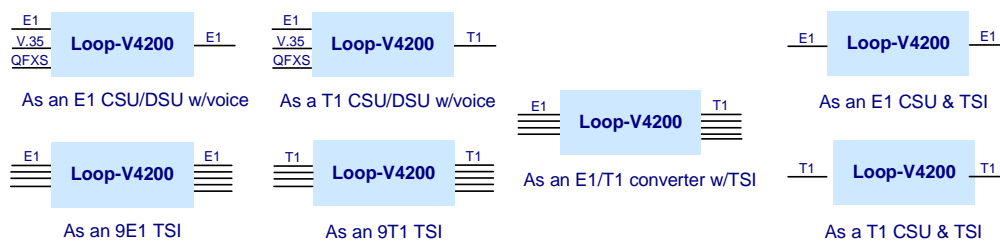


Power module slot, Ethernet slot, and 9 signal slots.

Compliance

CISPR 22 Class A, EN55022 Class A, EN50081, EN50082, FCC Part 15, FCC Part 68, CS-03 Issue 8, CE168X, NTR4, UL1950, CSA22.2 No.950, EN60950, NEBS Level 3: GR-1089-CORE, GR-63-CORE

Applications Illustrations



**Vertriebs - und Servicepartner für
 Deutschland
 Niederlande und Österreich**

**Quante Netzwerke GmbH
 Ahrensburger Str. 8
 D-30659 Hannover**

www.quante-netzwerke.de

**Tel: +49 (0)511 / 74 01 92 - 0
 Fax: +49 (0)511 / 74 01 92 - 100**