



Loop-E™1200 FE1 CSU/DSU SERIES



Features

- DSU functionality integrated with an intelligent CSU
- Loop Telecom's SNMP Network Management Systems
- Connect LAN/WAN, CAD/CAM, or Hosts to 2 Mbps E1 Network Services
- Optional GUI NMS LoopView
- Compliance with ITU-T G.703, G.704, G.706, G.732, G.736, G.823, ETSI ETS 300420, ETS 300419

Description

Loop Telecom's LOOP-E1200 FE1 CSU/DSU series provides an economic solution to the E1 network access at a fractional cost. The series utilizes only part of 31 data channels and users pay only a fraction of full E1 charges. The LOOP-E1200 FE1 CSU/DSU series supports HDB3 (High Density Bipolar 3) coding and provides continuous error checking, performance polling, and in-service diagnostics. The versatile LOOP-E1200 FE1 CSU/DSU series provides up to four sets of DTE equipment operating rates from 56 to 1984 Kbps and one Drop and Insert DTE operating at E1 (2048 Kbps) to be connected directly to the E1 network services. The series enables users to interconnect LANs and WANs, CAD and CAM, video conference, mainframe hosts, etc..

LOOP-E1200 FE1 CSU/DSU series supports local control and diagnostics with 2 by 40 characters LCD display and keypads. The series enables users to configure the unit, execute in-service diagnostics, and monitor network status and availability. LOOP-E1200 FE1 CSU/DSU series also provides LED status indicators. Loop Telecom supports SNMP by Loop Telecom's SNMP Network Management System to remotely control and diagnose LOOP-ETM products from anywhere in the network. In addition, Loop Telecom also provides an optional Windows based GUI network management system.

**CERTIFIED
ISO-9001**

Ordering Information

To specify options, choose from list below:

| Model | SNMP |
|------------------------------|--|
| Loop-E1200x-y-DTE-ww-SNMP-pp | YES |
| Accessories | |
| User's Manual | |
| Loop-E1200-UM | User's Manual (paper, hard copy-optional). A CD version of the manual is already included as standard equipment. |
| DTE Card | |
| E1200-EIA530 | Additional DTE 3/4 (EIA530) Card |
| E1200-V35 | Additional DTE 3/4 (V35) Card |
| Conversion Cable | |
| Loop-ACC-CAB-DTE-001 | V.35 DB25 (male) to M34 conversion cable, 1 feet |
| Power Cord | |
| Loop-ACC-PC-USA | AC power cord for Taiwan/USA |
| Loop-ACC-PC-EU | AC power cord for Europe |
| Loop-ACC-PC-UK | AC power cord for the UK |
| Loop-ACC-PC-AUS | AC power cord for Australia |
| Loop-ACC-PC-CH | AC power cord for China |

Where

x = 1 for no D&I, 2 for D&I port

y = 2 for 2 DTE port, 4 for 4 DTE port

DTE = 22 for V.35 DTE interface with DB25 connector
33 for EIA530 DTE interface

ww = 75 for 75 ohm BNC E1 interface
120 for 120 ohm twisted pair E1 interface

PP = DC for 24 - 48 Vdc
AC for 100 - 240 Vac, 50/60 Hz (For AC choose an appropriate power cord)

Example:

Loop-E 1201-2-22-75-DC =

For model 1200 with no D&I port, 2 DTE ports, V.35 DTE interface with DB25 connector, 75 ohm BNC E1 interface, no SNMP option, DC power.

NOTE: Order conversion cable for RS449 and X.21.

LOOP-E1200/ 200 FE1 CSU/DSU SERIES PRODUCT SPECIFICATIONS

Network Line Interface (E1 Interface)

| | | | |
|---------------|-------------------------|--------------|--|
| Line Rate | 2.048 Mbps \pm 50 ppm | Framing | ITU G.704 |
| Line Code | AMI / HDB3 (selectable) | Input Signal | ITU G.703 to -26dB |
| Output Signal | ITU G.703 | Connector | BNC / RJ48C (specify on order) |
| Jitter | ITU G.823 | Electrical | 75 Ω Coax / 120 Ω twisted pair |

Customer Equipment Interface

■ E1 Drop and Insert Port (optional)

| | | | |
|---------------|-------------------------|--------------|--|
| Line Rate | 2.048 Mbps \pm 50 ppm | Framing | ITU G.704 |
| Line Code | AMI / HDB3 (selectable) | Input Signal | ITU G.703 to -10dB |
| Output Signal | ITU G.703 | Connector | BNC / RJ48C(specify on order) |
| Jitter | ITU G.823 | Electrical | 75 Ω Coax / 120 Ω twisted pair |

■ DTE Data Port

| | | | |
|-----------------|---|-----------|----------------------------------|
| Number of Ports | 2 + 2 (optional) ports | Data Rate | 56 or 64 Kbps * n (n = 1 - 31) |
| Connector | EIA530 (DB25P), DB25P to V.35, RS449, or X.21 conversion cable (optional) | | |

■ DS0 Mapping

| | |
|----------------|---|
| Maps | Two switchable sets of DS0 maps for DTE and D&I ports |
| Remote Sending | Sending active DS0 maps to a remote site |

Performance Monitor

| | | | |
|---------------------|---|--|--|
| Performance Store | Last 24 hours performance in 15 minutes intervals and last 7 days in 24-hour summary line, user, D&I port, and remote site | | |
| Performance Reports | Date & Time, Errored Second, Degraded Minutes, Unavailable Second, Bursty Errored Second, Severe Errored Second, and Controlled Slip Second. Also available in Statistics (%) | | |
| Alarm History | Date & Time, Alarm Type (i.e. Master Clock Loss, RAI, AIS, LOS, BPV, ES, CS), and Location (i.e. line, DTE) | | |
| Alarm Queue | Maximum 40 alarm records which record the latest alarm type, location, and date & time | | |
| Threshold | Bursty Seconds, Severely Errored Second, Degraded Minutes | | |

System Configuration Parameters

Active Configuration, Stored Configuration, and Default Configuration (Stored in Non-volatile Memory)

Diagnostics Test

| | | | |
|-----------------|--|--|--|
| Loopback | Line Loopback, Payload Loopback, Local Loopback, and DTE Loopback | | |
| Test Pattern | 20 bits QRSS, 3-in-24, 1-in-8, 2-in-8, 1:1 patterns | | |
| Idle Channel | Use of idle channel to perform PRBS diagnostic test | | |
| Remote Loopback | Line Loopback, Payload Loopback, and DTE Channel Loopback (V.54 or Loop proprietary) | | |

Front Panel and Console Port

| | | | |
|--------------|--|--|--|
| Console Port | RS232 with VT100 terminal mode. Embedded SNMP (optional) | | |
| LCD/LED | 2 lines by 40 characters LCD display, 9 status LEDs (Power, Line, D&I, DTEn, RLB, and ACO) | | |
| Keypad | 4 operation keys and ACO key | | |
| Bantam Jack | 6 bantam jacks for Line and D&I port break and insert | | |

Alarm Relay

| | | | |
|-------------|---|--|--|
| Alarm Relay | Fuse alarm and performance alarm | | |
| Activation | RAI, AIS, LOS, LOF, BPV, ES, UAS, CS of line and D&I port, and DTE port alarm | | |

Physical/ Electrical

| | | | |
|-------------|-------------------------------|----------|---|
| Dimensions | 430 x 43.7 x 306.5 mm (WxHxD) | Humidity | 0-95% RH (non-condensing) |
| Power | -48V 450mA DC, 100-240V AC | Mounting | Desk-top stackable, 19/23 inch rack mountable |
| Temperature | 0-50°C | Weight | 7.7 lb., (3.5 kg) |

Compliance

| | | | |
|--------------|------------------------|---------|--|
| ETSI | ETS 300420, ETS 300419 | ITU | G.703, G.704, G.706, G.732, G.736, G.823 |
| Pan European | CTR 12/13, CE 168X | EMI/EMC | EN50082-1 EN55022 Class A |
| BABT | NTR4 | Safety | EN41003 |



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