



# Loop-V 4300 MINI DACS E1/ T1 CONVERTER

## Description



Loop-V 4300 Mini DACS E1/T1 converter provides both DS0 and n x 64 Kbps cross-connect between any T1 and E1 ports and E1 to T1 format conversion functions. E1 to T1 conversion include line format, A law to  $\mu$  law conversion, and signaling bits association. Loop-V 4300 also supports a DTE port operating from 56 Kbps to 1984 Kbps, This unit is suitable for applications involving 2 or 4 ports. Loop-V 4300 also supports inband Management, where management data is carried in a DS0 time slot, the same way as user data, traversing national networks.

## Ordering Information

To order specify:

Model	Description
Loop-V 4300-AA-BB-CC-DD-SNMP-pp	

### Accessories

User's Manual	
V4300-UM	User's Manual (paper, hard copy-optional). A CD version of the manual is already included as standard equipment.
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 each AA, BB =

E1 for E1 interface port

T1 for T1 interface port

Where CC and DD are optional =

E1 for E1 interface port

T1 for T1 interface port

DTE for V.35 DTE interface port

SNMP = Ethernet port for SNMP and Telnet connection

pp = DC for 20 - 72 Vdc power source

AC 100 - 240 Vac power source (Please specify which type of power cord you need.)

Example:

Loop-V 4300 T1-E1-V.35-V.35-SNMP-AC is a unit with one T1 port, one E1 port, two V.35 DTE ports, SNMP, and 100 -240 Vac power.

**CERTIFIED  
ISO-9001**

## **LOOP-V 4300 MINI DACS E1/ T1 CONVERTER PRODUCT SPECIFICATIONS**

### **Network Line Interface (E1)**

Line Rate	2.048 Mbps $\pm$ 50 ppm
Line Code	AMI / HDB3
Input Signal	ITU G.703
Framing	ITU G.704
Connector	BNC/RJ48C
Output Signal	ITU G.703
Electrical	75 $\Omega$ Coax/120 $\Omega$ twisted pair

### **Network Line Interface (T1)**

Line Rate	1.544 Mbps $\pm$ 32 ppm
Line Code	AMI / B8ZS
Input Signal	DS-1 from 0 dB to -26 dB w/ALBO
Surge Protection	FCC Part 68 Sub-Part D
Framing	D4/ ESF/ ESF&T1.403/ <b>NONE (Clear Channel)</b>
Connector	RJ48C
Output Signal	DSX-1, DS-1
Pulse Template	Per AT&T TR 62411

### **DTE Interface (V.35)**

Data Rate	n x (56 or 64) Kbps (n = 1 - 31)
Connector	DB25S for V.35

### **Performance Monitor**

Performance Store	E1: Last 24 hours performance in 15 minutes interval register and last 7 days in 24 hours summary T1: The last 24 hours performance in 15-minute intervals
Monitor Registers	E1: Line, user T1: Line, user
Performance Reports	E1: Reports include Date&Time, Error Second, Unavailable Second, Bursty Error Second, Severe Error Second, Degraded Minutes, and Controlled Slip Second. Also available in Statistics (%) T1: Reports include Date&Time, Error Second, Unavailable Second, Bursty Error Second, Severe Error Second, Controlled Slip Second, and Loss of Frame Count
Alarm History	Reports include Date&Time, Alarm Type (i.e. Master Clock Loss, Yellow Alarm, AIS, LOS, BPV, ES, CSS), and Location (i.e. line, PORT A, B, C, D)
Alarm Queue	Contains 40 alarm records which record the latest alarm type, location, and Date&Time

### **Alarm Relay**

Alarm Relay	Normally closed Fuse alarm and performance alarm
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### **Protection**

1 for 1	Port B can be configured to protect Port A Port A can be configured to protect Port B
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## **Network Management**

### **Console Port**

Connector DB9 at Front Panel  
Electrical RS232 interface  
Protocol Menu driven VT-100 terminal

### **Ethernet Port**

Connector RJ45 in rear  
Protocol Telnet (VT100) and Embedded SNMP

## **Voice Channel Conversion**

A-law to  $\mu$ -law G.711

Signaling bits ABCD are converted using user configurable conversion table

## **Inband Management**

Any 64 Kbps DS0 can be assigned for management

Management Protocols: HDLC

## **Diagnostics Test**

Loopback Line Loopback, Payload Loopback, Local Loopback, and DTE Loopback

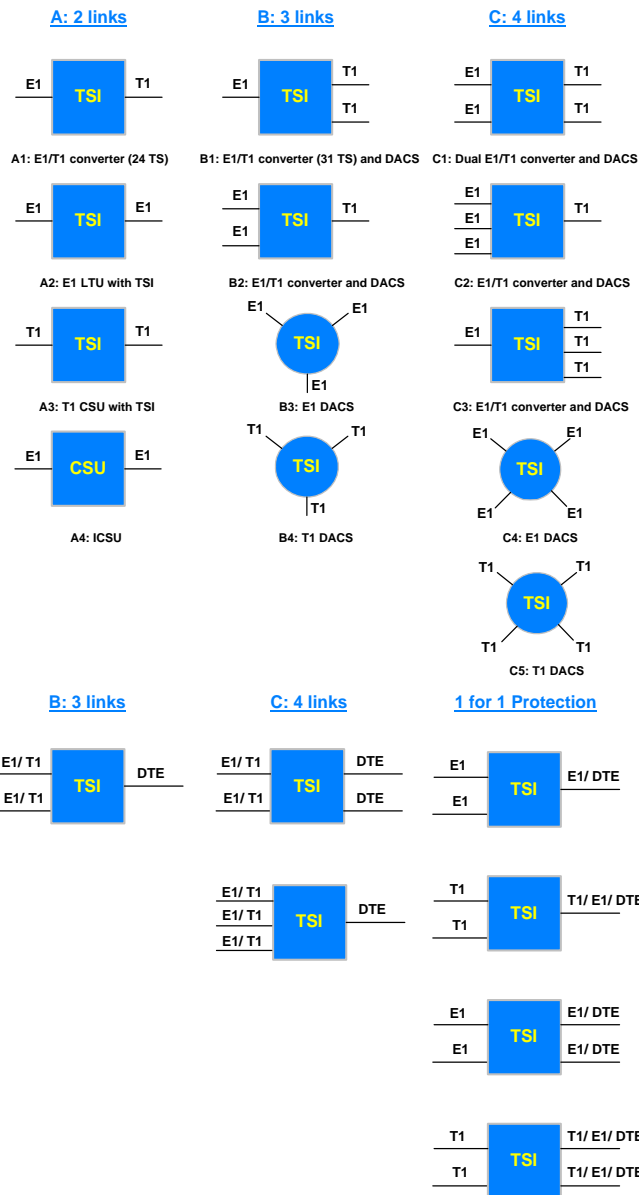
## **Front Panel**

Keypad 4 keys: left arrow, right arrow, ESC, and ENTER  
LCD 2-line by 16-character  
LED 6: Power, Port A, Port B, Port C, Port D, Alarm

## **Physical/Electrical**

Dimensions 212.6 x 43.7 x 197 mm (WxHxD)  
Temperature range 0°C -50°C  
Power 20-72 Vdc / 100-240 Vac, 50/60 Hz, 10 Watts  
Fuse 250V, 800mA  
Humidity 0%-95% RH (non-condensing)  
Mounting Desk-top stackable, 19/23 inch rack mountable, two units side-by-side

## Application Illustrations:



## LOOP TELECOMMUNICATION INTERNATIONAL, INC.

### Worldwide

8F, No. 8, Hsin Ann Road,  
Science-Based Industrial Park  
Hsinchu, Taiwan 300  
Tel:+886-3-578-7696  
Fax:+886-3-564-6272  
www.LoopTelecom.com  
sales@loop.com.tw

### Taipei, Taiwan

2F, No. 40, Section 2,  
Tuan-Hwa S. Road,  
Taipei, Taiwan 106  
Tel:+886-2-2784-4000  
Fax:+886-2-2754-2325

### North America

8 Carrick Road  
Palm Beach Gardens  
Florida 33418, U.S.A.  
Tel:+1-561-627-7947  
Fax:+1-561-627-6615  
jimber561@aol.com

### Suzhou China

Tel:+86-512-6252-0456  
Fax:+86-512-6252-7641  
Sales@looptech.com.cn

### Tianjin China

Tel:+86-22-8789-2753  
Fax:+86-22-8789-0344  
Loop@loop-tj.com