



# IX-4300 MINI DACS E1/ T1 CONVERTER

## Description

IX-4300 Mini DACS E1/T1 converter provides both DS0 and n\*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. IX-4300 also supports DTE port operating from 56 Kbps to 2048 Kbps, This unit is suitable for applications involving 2 or 4 ports. IX-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
IX-4300-AA-BB-CC-DD-SNMP-pp

Where each AA, BB =

E1 for E1 interface port

T1 for T1 interface port

Where each CC, DD =

E1 for E1 interface port

T1 for T1 interface port

DTE for V.35 DTE interface port

SNMP = Optional Ethernet port for SNMP and Telnet connection

pp = DC for 20 - 60 Vdc power source

AC for 100 - 240 Vac power source

Example:

IX-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 option, and 90-230 Vac power.

## Features :

- 2, 3, or 4 ports, E1, T1, or DTE (2 DTE Max.)
- For E1/ T1, each DS0 time slot from any port can be assigned to any DS0 time slot of any other port
- For E1/ T1, each DS0 can be designated as a 64 Kbps clear channel, or as a voice channel
- Full translation of digitized voice between T1 and E1, including A law to  $\mu$  law and signaling bits association.
- 2-line by 16-character LCD for maintenance, performance monitoring, and administration
- Optional Ethernet port for the connection to SNMP and to Telnet
- Inband Subnet Management facility for remote management through national networks.
- Multicolor LED indicators for each of 4 line interfaces

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ISO-9001**

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## **IX-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
Connector	RJ48C
Output Signal	DSX-1 w/0, -7.5, -15 dB LBO
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, and remote site (in ESF mode only)
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	Fuse alarm and performance alarm
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### **Network Management**

#### **Console Port**

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

#### **Ethernet Port (optional)**

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

### **Inband Management**

Any 64 Kbps DS0 can be assigned for management

### **Diagnostics Test**

Loopback	Line Loopback, Payload Loopback, and Local Loopback
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### **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	22.5 x 4.5 x 20 cm, 8 <sup>7</sup> / <sub>16</sub> " x 1 <sup>3</sup> / <sub>4</sub> " x 7 <sup>7</sup> / <sub>8</sub> " (WxHxD)
Temperature range	0 $^{\circ}$ C -50 $^{\circ}$ C
Power	20-60 Vdc / 100-240 Vac, 50/60 Hz, 10 Watts
Humidity	0%-95% RH (non-condensing)
Mounting	Desk-top stackable, 19/23 inch rack mountable, two units side-by-side