

APX-104E/108E/DS3



T1/E1/DS3 over Ethernet (TDMoE) Extender

General

Data Rate	
APX-104E	4 x E1/T1
APX-108E	8 x E1/T1
APX-DS3	2 x DS3 44.736Mbps
Receiver Range	
APX-104E/108E	0 to 36 dB loss
APX-DS3	1000 feet cable with 12dB cable attenuation.
Clock Mode	
APX-104E/108E	Configurable as Loopback, internal, external, adaptive, differential
APX-DS3	External, Tributary Timing
Loopback	
APX-104E/108E	T1/E1 Port Loopback
APX-DS3	T3/Tributary Port Loopback
Encoding/Decoding	
APX-104E/108E	B8ZS, AMI or HDB3
APX-DS3	B3ZS/HDB3
Line Buildout	
APX-104E/108E	0-133 ft, 133-266 ft, 266-399 ft, 399-533 ft, 533-655 ft
APX-DS3	See receiver range
Latency	
APX-104E/108E	Variable < 3 mSec
APX-DS3	Variable
Buffer Size	
APX-104E/108E	User Programmable (125 usec-120 msec)
APX-DS3	User Programmable (0.5-30 msec)
Timing Recovery	
APX-104E/108E	H.823 compliant stratum 3 performance option for 50 ppB frequency stability

Mechanical

Dimensions	
APX-104E	28 cm x 21 cm x 4 cm 11 in x 8.3 in x 1.5 in
APX-108E	44 cm x 25 cm x 4 cm 17.3 in x 9.8 in x 1.5 in
APX-DS3	24 cm x 14.4 cm x 4 cm 10 in x 5.6 in x 1.6 in
Weight	
APX-104E	(1.9Kg) 4.2 lbs
APX-108E	(3.1Kg) 6.8 lbs
APX-DS3	(1.0Kg) 2.3 lbs

Environmental

Operating Temp	
	0°C to +50°C (32°F to +122°F)
Humidity	
	95 % Non Condensing
Altitude	
	4500 m (14,760 ft)

Alarms

LOS (Loss of Signal)
AIS (Alarm Indication Signal)
LOF (Loss of Frame)
RAI (Remote Alarm Indication)
Buffer underrun
Buffer overrun

Management/System

Type	
APX-104E/108E	Command Line Interface, Web GUI, SNMP 1/2/3 (CLI) – In-band Management
APX-DS3	Command Line Interface (CLI) –Remote Management
Interfaces	
APX-104E/108E	RS 232 Craft Port, In-Band/out of band 10/100 BaseT port
APX-DS3	RS 232 Craft Port, 10/100/1000 BaseT port
Statistics	
APX-104E/108E	T1/E1 Stats and logging
APX-DS3	DS3 PMON
System	
APX-104E/108E	Software upgrade through RS232/Telnet
APX-DS3	Software upgrade through telnet

Connections

Primary Power	
APX-104E	100-240 VAC
APX-108E	100-240 VAC/48VDC - Dual power
APX-DS3	100-240 VAC, 24/48 VDC 20W
TDM	
APX-104E/108E	4 x T1/E1 Ports or 8 x T1/E1 ports
APX-DS3	2 x DS3 Ports
Ethernet (In/Out)	
APX-104E	6 x 10/100 BaseT (Fiber Optional)
APX-108E	3 x 10/100 Base T (Fiber Optional)
APX-DS3	2 x 100/1000 BaseT Wirespeed full duplex (IEEE 802.3 compliant)
Console	
	RJ45 Serial Port
Dry Contact Closure	
	DB9 port (APX-108 Only)
Timing	
APX-104E/108E	External Clock
APX-DS3	BITS Clock

Standards

CORE GR54, ATT Pub 62411, ANSI T1.408, TRY-TSY000499,
ITU G.703, G.755, G.736, G.823, DSX-1, IEEE 802.3, DIX,
FCC Part 15 Class A, ETSI EN301489, CSA 22.2 No 60950



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