

# AIRPAIR™ APX-104

## T1/E1 over Ethernet (TDMoE) Extender

**Air Pair APX-104** delivers a standards compliant N x T1/E1 port extension capability to Ethernet platforms including the industry leading AirPair High Capacity Wireless Ethernet solution.

A single APX-104 supports 4 x T1/E1 ports and 2 x Ethernet ports. One Ethernet port is dedicated for user traffic, the other for the AirPair uplink. Two APX-104's can be cascaded, or up to six can be stacked using a third party Ethernet switch.

The APX provides service adaptation to seamlessly transport T1/E1 traffic over a native Wireless Ethernet platform, enabling Service Providers a seamless migration to native IP networks, while still supporting legacy TDM services. Applications of the APX-104 include:

- › Inter-building PBX Extension
- › MSO Voice and Data Services
- › Cellular BTS Interconnect
- › Telco Trunking

In addition to supporting end-to-end connections that are transparent to all signaling protocols, the APX-104 automatically prioritizes synchronous data over packet data using 802.1P, therefore ensuring TDM traffic is maintained across the wireless connection.

## Key Features:

- › Transparent T1/E1 line extension over Ethernet (TDMoE)
- › Integrated Ethernet switch combines IP user payload and TDMoE channels with priority
- › 4 x T1/E1 ports per module
- › 2 x 100BaseT Ethernet ports
- › Stackable up to 6 with an Ethernet switch
- › Cascadable up to two
- › Table top or 19" rack mountable
- › LOS/AIS Physical layer alarms supported
- › Compliant to Bellcore DSX-1 and G.703 standards for on-premise metallic interfaces and synchronization

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### GENERAL

Receiver Range	0 to 36 dB loss
Clock Mode	Configurable as Loopback or Recovered
Loopback	Supports per channel local analog, remote digital dual loopback modes
Encoding/Decoding	B8ZS, AMI or HDB3
Line Buildout	0-133 ft, 133-266 ft, 266-399 ft, 399-533 ft, 533-655 ft
Latency	< 5 mSec
Jitter	+/- 2 Frames @ 100 mbps

### ALARMS

Line Code Violation
LOS (Loss of Signal)
AIS (Alarm Indication Signal)

### MECHANICAL

Dimensions	19 cm x 14 cm x 4 cm 7.4 in x 5.5 in x 1.5 in
Weight	680 g (1.5 lbs)

### INDICATORS

Power
Ready
Network Link Ok
Network Link Activity
AirPair Link Ok
AirPair Link Activity
CH 1: T1 Sync
CH 2: T1 Sync
CH 3: T1 Sync
CH 4: T1 Sync

### MANAGEMENT/SYSTEM

Type	Command Line Interface (CLI), EMS (GUI)
Interfaces	RS 232 Craft Port
Loopback System	T1/E1 Port Loopback Software upgrade through Craft Port

### CONNECTIONS

Primary Power (option 1) (option 2)	90-240 VAC (Converter Supplied) - 48 VDC
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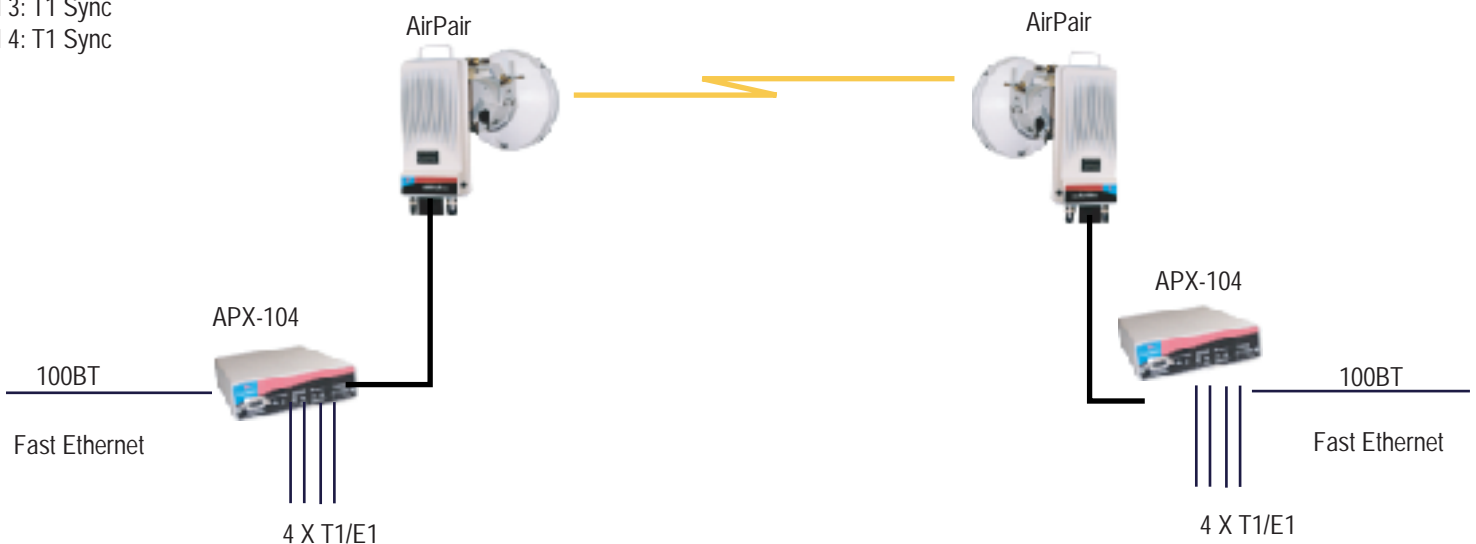
TDM	4 x T1/E1 Ports
Ethernet (In/Out)	2 x 100 BaseT Wirespeed full duplex (IEEE 802.3 compliant)

### 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, UL60950

### ENVIRONMENTAL

Operating Temp	0°C to +40°C (32°F to +104°F)
Humidity	95 % Non Condensing
Altitude	4500 m (14,760 ft)



Specifications subject to change without notice

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