AirPair™ APX-104

T1/E1 over Ethernet (TDMoE) Extender

AirPair APX-104 delivers a standards-compliant n x T1/E1 port extension capability to Ethernet platforms including the industry-leading AirPair family of High Capacity Wireless Ethernet Bridges.

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-104s can be cascaded, or up to 6 can be stacked using an external Ethernet switch.

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

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.
- Cascade up to 2 per AirPair.
- 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.

Applications of the APX-104 include:

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

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Technical Specifications

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 ms
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)
LED 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

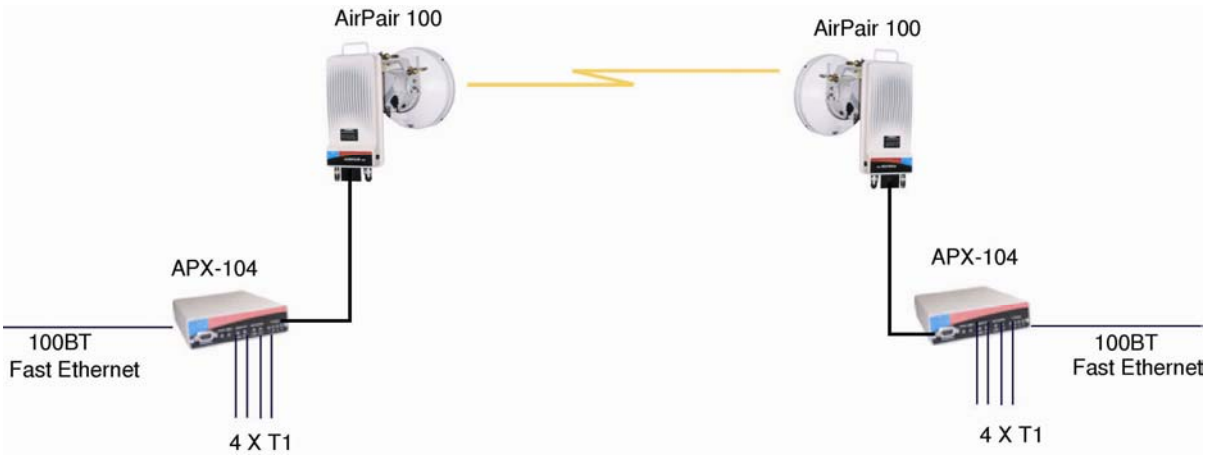
Type	Command Line Interface EMS (GUI)
Interfaces	RS232 Craft Port
Loopback	T1/E1 Port Loopback
System	Software upgrade through Craft Port

Connections

Primary Power	90 – 240 VAC (converter supplied) or -48 VDC (optional)
TDM	4 x T1/E1 Ports
Ethernet (In/Out)	2 x 100BaseT wire speed full duplex
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 EN 301 489, CSA 22.2 No 60950, UL 60950

Environmental

Operating Temperature	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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