

# Airmux-400

Point-to-Point Broadband Wireless Radios



RAD's Airmux-400 series of carrier-class broadband wireless radios deliver native Ethernet and TDM services over point-to-point links in various sub-6 GHz frequencies. With a flexible combination of Ethernet and TDM Services, the high capacity Airmux-400 radio systems provide aggregated throughput of up to 750 Mbps and a range of up to 120 km (75 miles).

The Airmux-400 radio systems incorporate advanced features, such as MIMO, OFDM and high modulation schemes. Furthermore, unique air interface capabilities ensure optimal performance and high spectral efficiency in dense radio environments and multipath conditions. Airmux-400 products comply with worldwide regulations and standards and are deployed globally by operators of public and private networks requiring high-capacity connectivity.

Part of  
RAD's Service Assured  
Networking Solutions



Your Network's Edge®

# Airmux-400

## Point-to-Point Broadband Wireless Radios

### Key Takeaways:

- Deliver Ethernet and TDM services over the same link for seamless migration from legacy TDM to IP networks
- Multi-band operation in a single device with a variety of channel bandwidth options
- Robust air interface with unique interference mitigation and N-LOS operation
- Quality of service (QoS) and advanced networking features
- Built-in redundancy and protection schemes maximize service availability

### Use Airmux-400 for:



#### Power Utility Communications

- Multiservice Operational WAN
- Industrial IoT Backhaul for Distribution Automation and Smart Metering



#### Oil and Gas Utility Communications

- Industrial IoT Backhaul for Oil and Gas Utility Communications



#### Water Utilities Communications

- Industrial IoT Backhaul for Water Utilities Communications



#### Highway Communications



#### Train and Metro Communications

- Industrial IoT Backhaul for Trains and Metros

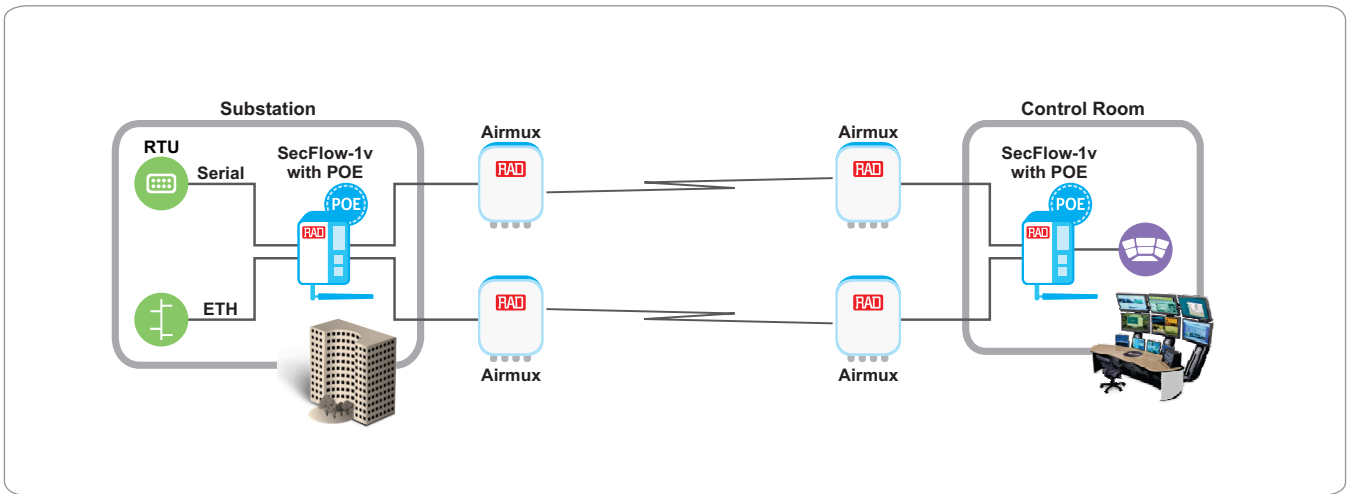


#### Smart City Communications

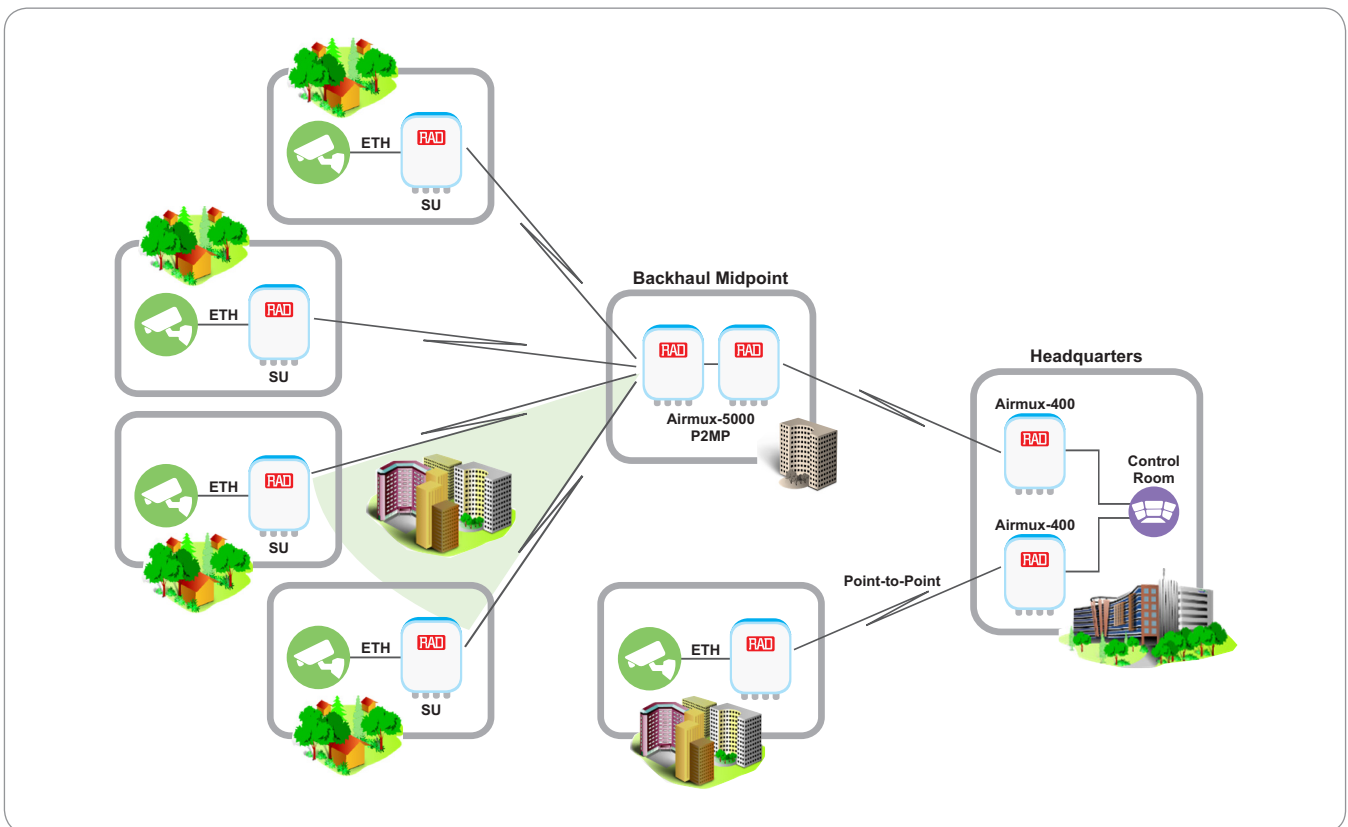
- Operational WAN for Smart Cities
- Industrial IoT Backhaul for Smart Cities



### Point-to-Point Wireless Connectivity with 1+1 or 1:1 protection



### Fixed wireless: Where Fiber Won't Go



## Quick Specs:

	Airmux-400H	Airmux-400A
Max Throughput		
Ethernet	750 Mbps	50, 250, 500 Mbps @ 5.xGHz 500 Mbps @ 3.xGHz
TDM E1 / T1 Trunks	-	-
Antenna	Internal/External	Internal/External
Range	Up to 120 km / 75 mile	Up to 40 km / 25 mile
Frequency band	4.9-6.0 GHz	4.9-6.0 GHz 3.4-3.8 GHz
Channel Bandwidth	10/20/40/80 MHz	5.x GHz: 5/10/20/40/80 MHz 3.x GHz: 10/20/40/80 MHz
RADIO regulations	FCC, IC, ETSI, UNI, TH, MII, NCC	5.x GHz: ETSI, WPC, UNI, MII, NCC; 3.x GHz: ETSI, UN
Adaptive Modulation & Coding	BPSK to 256 QAM	BPSK to 256 QAM
Latency	< 3msec	< 3msec

- OFDM & MIMO 2x2/diversity and high modulation scheme including QAM 256
- Max Throughput of Up to 750 Mbps with max range of up to 120 km (75 miles)
- Automatic channel selection (ACS) with user preferred channels, dynamic frequency selection (DFS) support
- GPS-based hub site TDD synchronization
- AES 128/256 encryption
- Ethernet QoS
- 1+1 redundancy and ring protection
- Element manager (Airmux Manager) supported by RAD's network manager (RADview)
- Telnet & web-based management, IPv4 & IPv6; local and remote access
- Multiple TDM services using RAD products

## RAD's IDU products



**Megaplex-1**  
2 x GbE, 8 x E1/T1, serial and voice



**PowerFlow-2**  
8 x GbE, 8 x FE



**SecFlow-1v**  
4 x FE, 1 x SFP



**Airmux-IDU**  
2/6 x FE, 4/16 x E1/T1



[www.rad.com](http://www.rad.com)

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