Airmux-5000

Point-to-Multipoint Broadband Wireless Access

RAD's Airmux-5000 series of carrier-class broadband wireless radios deliver native Ethernet services over point-to-multipoint (PtMP) links in various sub-6 GHz frequencies. It includes high capacity base stations (HBS) and high capacity subscriber units (HSU) for fixed and nomadic applications requiring guaranteed bandwidth per subscriber.

Airmux-5000 radios incorporate advanced technologies to ensure optimal performance and high spectral efficiency in dense radio environments and multipath conditions. Airmux-5000 products comply with worldwide regulations and standards and are deployed globally by leading service providers, as well as operators of public and private networks requiring high-capacity connectivity.

Part of
RAD's Service Assured
Access Solutions

Part of
RAD's Service Assured
Networking Solutions

RAD

Your Network's Edge®

Airmux-5000
Point-to-Multipoint Broadband Wireless Access

Key Takeaways:

- High capacity, up to 750 Mbps at the base station for best user experience

- Multi-band operation in a single device with a variety of channel bandwidth options

- Guaranteed service level agreement (SLA) for demanding applications

- Robust air interface with unique interference mitigation and NLOS/nLOS operation

- Greater spectrum efficiency for faster ROI

- Superb performance with interference immunity using beamforming technology
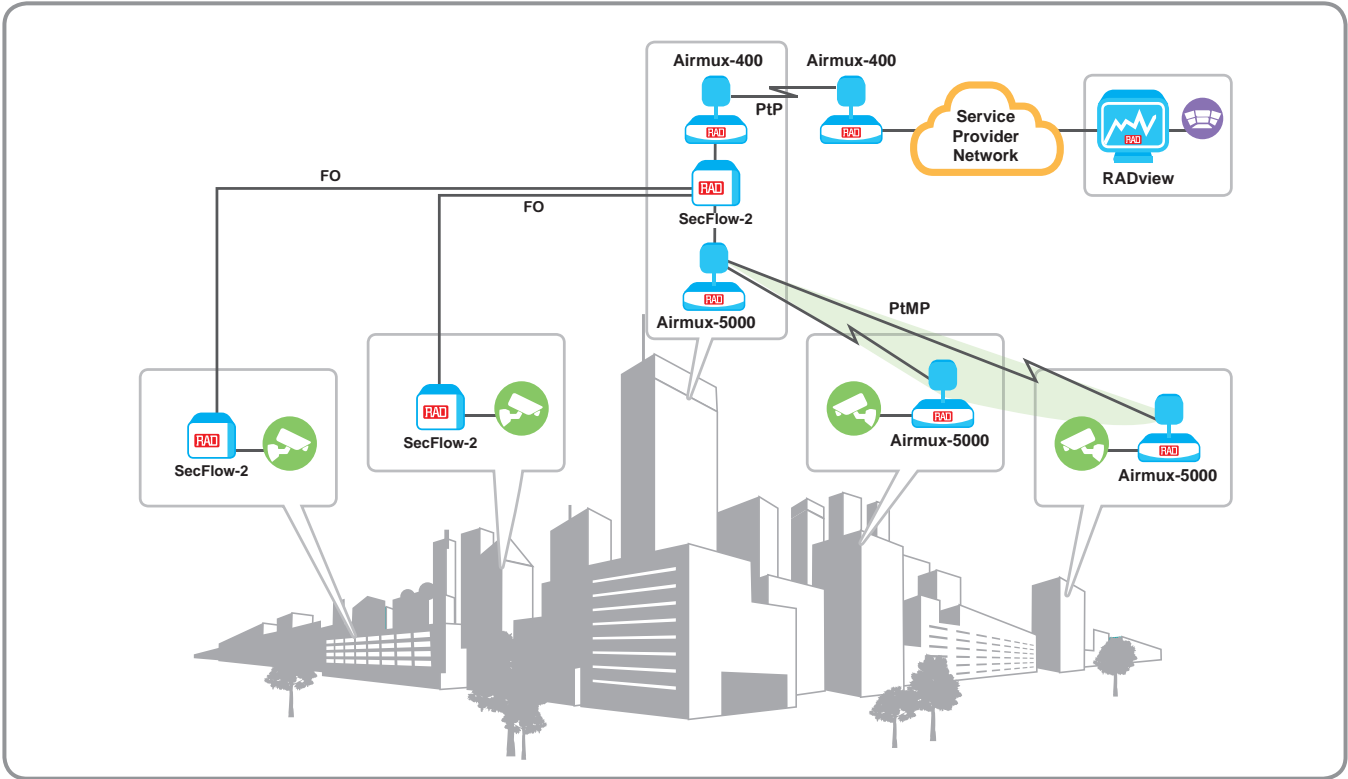
Use Airmux-5000 for:

- Smart City Communications

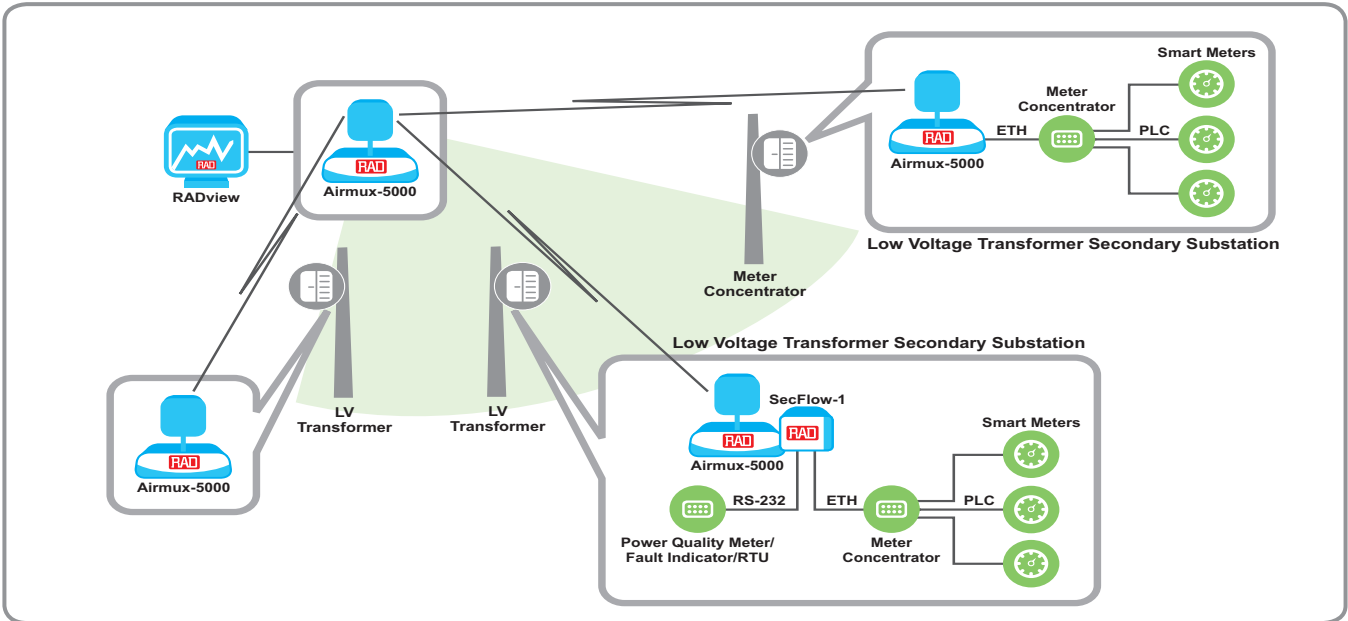- Police and Military Communications

- Power Utility Communications

- Water Utility Communications

Smart City Communications

Airmux-400   Airmux-400

PtP

RAD   RAD

Service Provider Network

RADview

FO

FO

SecFlow-2

SecFlow-2

Airmux-5000

PtMP

SecFlow-2

Airmux-5000

Airmux-5000

Distributed Automation and Smart Metering Backhaul

RADview

Airmux-5000

Smart Meters

Meter Concentrator

Airmux-5000   ETH   PLC

Low Voltage Transformer Secondary Substation

Meter Concentrator

LV Transformer

LV Transformer

Airmux-5000

Low Voltage Transformer Secondary Substation

SecFlow-1

Airmux-5000

Smart Meters

Power Quality Meter/ Fault Indicator/RTU   RS-232   ETH   PLC

Meter Concentrator

Quick Specs:

Product Series	Max. Aggregate Throughput	Band (GHz)
5000i HBS	Up to 750 Mbps	3.3–3.8, 3.65, 5.1–5.8
5000 HBS	25, 50, 100, 250 Mbps	2.4, 2.5–2.7, 3.3–3.8, 4.9–6.0
5000VS HBS	125** Mbps	5.1–5.8
5000 HSU	5*, 10*, 25*, 50* Mbps	2.4, 2.5–2.7, 3.3–3.8, 4.9–6.0

* Software upgradeable

** Up to 10 HSUs

- Fixed and nomadic capabilities

- Variety of subscriber units – 10 Mbps, 25 Mbps, 50 Mbps, 100 Mbps

- Small form-factor subscriber units, up to 32 HSUs per base station

- OFDM, MIMO 2x2/diversity for NLOS deployments

- Beamforming technology for congested areas (Airmux-5000i)

- 5 MHz, 10 MHz, 20 MHz, 40 MHz, or 80 MHz channel bandwidth with dynamic channel bandwidth selection (D-CBS)

- Co-exists with Airmux-400 point-to-point radios

- Automatic channel selection (ACS) with user preferred channels, dynamic frequency selection (DFS) support

- AES 256 encryption, Ethernet QoS

- GPS-based hub-site TDD synchronization

- Long range – 40 Km/25 miles

- Element manager (Airmux Manager) and network manager (RADview)

- Telnet & web-based management, IPv4 & IPv6; local and remote access

- IP67 rating for severe outdoor conditions

RAD
Your Network's Edge®