

Airmux-5000

BS/F54E/250M/EXT

Sector Base Station



Description

Airmux-5000/BS/F54E/250M/EXT is a sector Base Station radio unit (HBS) that provides up to 250 Mbps net aggregate throughput while delivering access connectivity for up to 32 Subscriber Units (HSU).

Airmux-5000/BS/F54E/250M/EXT supports 5.1 to 5.8 GHz and complies with ETSI regulations.

The radio is connectorized for external antenna (2 x N-type).

Highlights

- Up to 250 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Supports up to 32 HSUs
- Guaranteed Service Level Agreement (SLA) per HSU
- Exceptional short and constant latency
- Single radio supporting multiple bands
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable operation in harsh conditions, extreme temperatures and non-line-of-sight scenarios
- Ease of operation and maintenance

Specifications

Configuration				
Architecture	Outdoor Unit connectorized for external antenna (2 x N-type)			
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT			
Radio				
Max Capacity	250 Mbps net aggregate throughput			
Subscriber Units (HSUs) support	Up to 32 HSUs			
Range	Up to 40 km / 25 miles			
Channel Bandwidth	Configurable: 10, 20, 40 MHz (for the default band)			
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)			
Adaptive Modulation & Coding	Supported			
Smart Bandwidth Management (DBA)	Supported			
DFS	Supported (ETSI)			
Diversity	Supported			
Max Tx Power	25 dBm; max EIRP 30 dBm (for the default band)			
Duplex Technology	TDD			
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6			
Encryption	AES 128; FIPS 197; AES 256 optional (via Software License Key)			
Support Indoor units	RAD PoE devices (Airmux-PoE/GBE/ACxx)			
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric			
End to End Latency	Typical: 3.5msec @ 2 HSUs; 20msec @ 32 HSUs			
Layer 2	Bridging learning of 5K MAC addresses			
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv			
VLAN Support	802.1Q, QinQ, 4094 VLANs			
TDD Intra Site Synchronization	Supported			
TDD Inter Site Synchronization	Supported through common GPS receiver per site			
ODU Management	IPv4/IPv6 dual-stack; SNMP v1 and v3; HTTP using web browser			
Supported Bands				
Band	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	Radio Compliance
5.3 GHz ETSI	5.150-5.350	5.150-5.350	-	EN 301 893
5.480-5.700 GHz ETSI (default)	5.475-5.705	5.470-5.710	5.490-5.720	EN 301 893
5.8 GHz ETSI	5.735-5.865	5.735-5.865	-	EN 302 502
Mechanical				
ODU Dimensions	28(w) x 19.5(h) x 8(d) cm			
ODU Weight	2.4 kg / 5.29 lbs			
Power				
Power Feeding	Power provided over ODU-IDU cable			
Power Consumption	<20W			
Environmental				
Operating Temperatures	-35°C to 60°C / -31°F to 140°F			
Humidity	100% condensing, IP67 (totally protected against dust and against immersion up to 1m)			
Safety				
FCC/IC (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22			
ETSI	EN/IEC 60950-1, EN/IEC 60950-22			
EMC				
FCC	47 CFR Class B, Part15, Subpart B			
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4			
CAN/CSA-CEI/IEC	CISPR 22-04 Class B			

Ordering

Airmux-5000/BS/F54E/250M/EXT

HBS 5200 ODU, connectorized for external antenna (2 x N-type), supporting multi frequency bands at GHz, factory default .