

Airmux-5000

BS/F54E/25M/EXT

Sector Base Station

**AIRMUX**

Description

Airmux-5000/BS/F54E/25M/EXT is a sector Base Station radio unit (HBS) that provides up to 25 Mbps net aggregate throughput while delivering access connectivity for up to 16 Subscriber Units (HSU).

Airmux-5000/BS/F54E/25M/EXT supports 5.1 to 5.8 GHz and complies with ETSI regulations.

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

Highlights

- Up to 25 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Supports up to 16 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 xN-type)				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT				
Radio					
Max Capacity	25 Mbps net aggregate throughput				
Subscriber Units (HSUs) support	Up to 16 HSUs				
Range	Up to 40 km / 25 miles				
Channel Bandwidth	Configurable: 5, 10, 20 MHz (for the default band)				
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)				
Adaptive Modulation & Coding	Supported				
Smart Bandwidth Management (DBA)	Not Supported				
DFS	Supported (for the default band)				
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				
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; 12msec @ 16 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	Not Supported				
TDD Inter Site Synchronization	Not Supported				
ODU Management	IPv4/IPv6 dual-stack; SNMP v1 and v3; HTTP using web browser				
Supported Bands					
Band	Channel BW 5MHz [GHz]	Channel BW 10MHz [GHz]	Channel BW 20MHz [GHz]	Channel BW 40MHz [GHz]	Radio Compliance
5.4 GHz ETSI (default)	5.4725-5.7225	5.475-5.720	5.470-5.725	-	EN 301 893
5.3 GHz ETSI	-	5.150-5.350	5.150-5.350	-	EN 301 893
5.8 GHz ETSI	-	5.725-5.875	5.725-5.875	-	EN 302 502
Mechanical					
ODU Dimensions	21(w) x 17(h) x 7(d) cm				
ODU Weight	1.2 kg / 2.65 lbs				
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<12W				
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/25M/EXT

HBS 5025 ODU, connectorized for external antenna (2 xN-type), supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz ETSI.