

Airmux-5000

BSA/F54E/250M/INT

Sector Base Station

**AIRMUX**

Description

Airmux-5000/BSA/F54E/250M/INT is an AIR series sector Base Station radio unit (HBS). It provides 250 Mbps net aggregate throughput while delivering access connectivity for up to 32 Subscriber Units (HSU).

Airmux-5000/BSA/F54E/250M/INT supports 5.4 to 5.8 GHz and complies with ETSI regulations.

The radio comes with an integrated antenna.

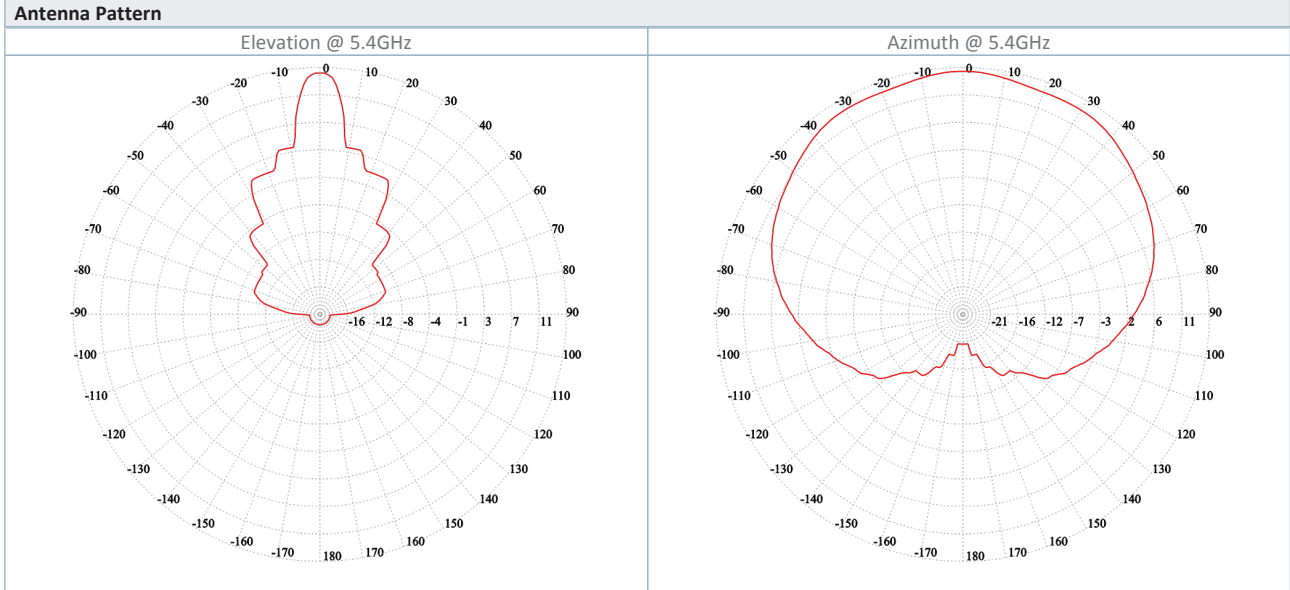
Highlights

- Up to 250 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Supports up to 32 HSUs
- Best Effort Service
- 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 with an integrated antenna			
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			
Channel Bandwidth	Configurable: 10, 20, 40 MHz (for the default band)			
Adaptive Modulation & Coding	Supported			
Smart Bandwidth Management (DBA)	Best Effort Service			
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			
Support Indoor units	RAD PoE devices (Airmux-PoE/GBE/ACxx)			
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric			
End to End Latency	Typical: 3msec			
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			
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
5.4 GHz ETSI (default)	5.475-5.705	5.470-5.710	5.490-5.690	EN 301 893
5.8 GHz ETSI	5.735-5.865	5.735-5.865	-	EN 302 502
Mechanical				
ODU Dimensions	50(w) x 20(h) x 11(d) cm			
ODU Weight	3.9 kg / 8.60 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			
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			

Integrated Antenna	
Gain	13 dBi
VSWR	1.7 : 1 (typ)
3 dB Azimuth Beamwidth	90 Deg. (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	-10dB (typ)
Cross Polarization	-25dB (typ)
F/B Ratio	-20 dB
Port To Port Isolation	30dB (typ)
Lightning Protection	DC Grounded



Ordering

Airmux-5000/BSA/F54E/250M/INT

Airmux-5000 HBS AIR ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz ETSI.