

Airmux-5000

BS/F54E/250M/INT

Sector Base Station (Airmux-5000/BS/F54E/250M/INT)



Description

Airmux-5000/BS/F54E/250M/INT 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/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
- 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 nonline-of-sight scenarios
- Ease of operation and maintenance

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Specifications

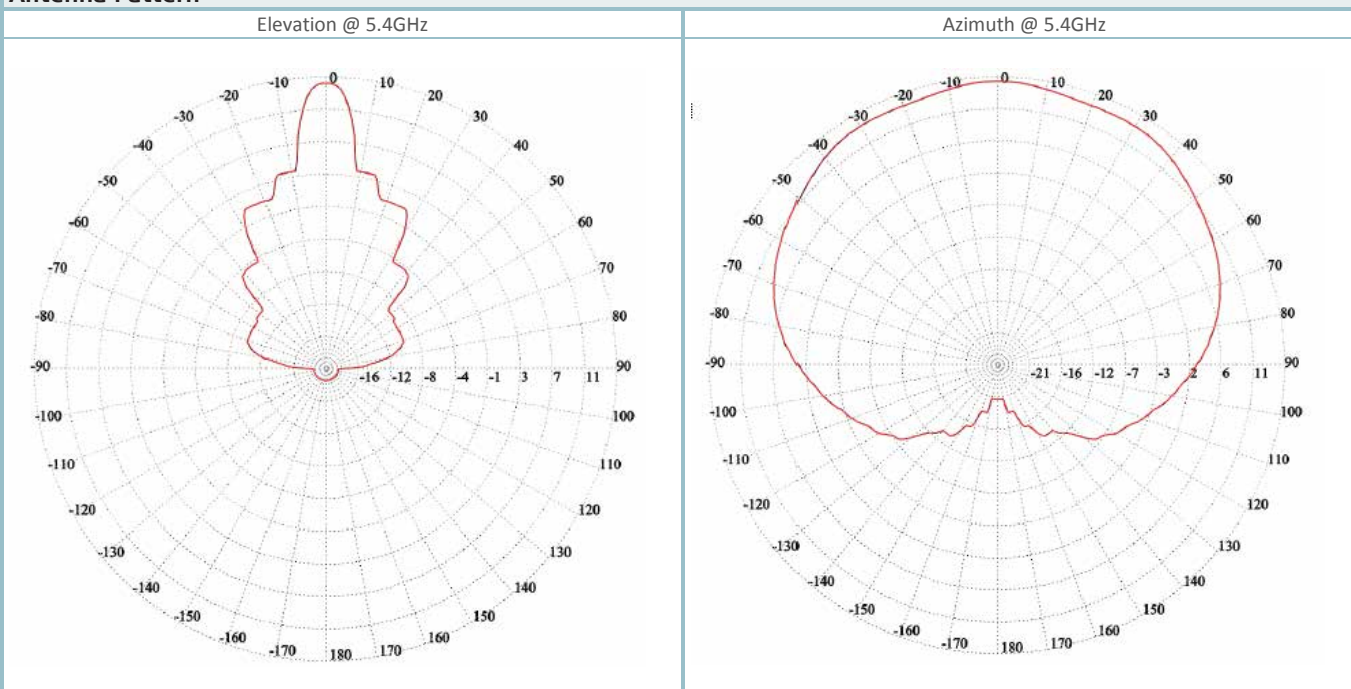
Configuration				
Architecture	Outdoor Unit with an integrated antenna			
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT			
Radio				
Max Capacity	250 Mbps net aggregate throughput			
Subscriber Units (HSUs) support	Up to 32 HSUs			
Range	Up to 40 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			
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
5.4 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	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			
Humidity	100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m)			
Safety				
US/CAN (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22			
CE/IEC	EN/IEC 60950-1, EN/IEC 60950-22			
EMC				
FCC	47 CFR, Part15, Subpart B, Class B			
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4			
CAN/CSA-CEI/IEC	CISPR 22-2010 Class B			

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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

Antenna Pattern**Ordering****Airmux-5000/BS/F54E/250M/INT**

HBS 5200 ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz ETSI.

International Headquarters

24 Raoul Wallenberg Street
Tel Aviv 69719, Israel
Tel. 972-3-6458181
Fax 972-3-6498250, 6474436
E-mail market@rad.com

North America Headquarters

900 Corporate Drive
Mahwah, NJ 07430, USA
Tel. 201-5291100
Toll free 1-800-4447234
Fax 201-5295777
E-mail market@radusa.com

www.rad.com

