

Airmux-5000i

BS/F54E/250M/INT

Sector Base Station



AIRMUX

Description

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

The radio comes with a smart beamforming integrated antenna with embedded GPS.

Highlights

- Base station with smart beamforming antenna
- 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

BS/P34E/250M/INT Sector Base Station

Specifications

Configuration					
Architecture	Outdoor Unit with a smart beamforming integrated antenna with embedded GPS				
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); Dynamic Channel BW selection				
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)				
Adaptive Modulation & Coding	Supported				
Smart Bandwidth Management (DBA)	Supported				
DFS	Supported (for the default band)				
Diversity	Supported				
Max Tx Power	25 dBm (for all modulation scheme); 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				
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	Channel BW 5MHz [GHz]	Channel BW 10MHz [GHz]	Channel BW 20MHz [GHz]	Channel BW 40MHz [GHz]	Radio Compliance
5.4 GHz ETSI (default)	-	5.475-5.720	5.470-5.725	5.470-5.725	EN 301 893
5.8 GHz ETSI	-	5.725-5.875	5.725-5.875	-	EN 302 502
Mechanical					
ODU Dimensions	35.6(w) x 22.5(h) x 9.4(d) cm				
ODU Weight	3.3 kg / 7.28 lbs				
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<30W				
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				

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Integrated Antenna	
Gain	20 dBi
VSWR	2.0 : 1
3 dB Azimuth Beamwidth	8°; over 90° (+/-45°)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	-12 dB(typ)
Cross Polarization	-30dB (typ)
F/B Ratio	-25 dB
Port To Port Isolation	35 dB (typ)
Lightning Protection	DC Grounded

Ordering

Airmux-5000i/BS/F54E/250M/INT

HBS 5800 ODU, with a smart beamforming integrated antenna with embedded GPS, supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz ETSI.

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

North America
900 Corporate Center
Mahwah, NJ 07430, USA
Tel. 201-5291100
Toll free 1-800-4447234
Fax 201-5295777



<http://www.cbnetworks.fr>

12 avenue des prés
78059 St Quentin en Yvelines

Tel: 33 (0)1 77 55 03 00

Fax: 33 (0)1 30 44 11 95

E-mail: sales@cbnetworks.fr



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