

RADWIN HPMP 5000L Model

Sector Base Station - Data Sheet (RW5000/HBS-Pro/5LB5/F64/UNI/INT)



RW-5LB5-9164

Product Description

RW-5LB5-9164 is a sector Base Station radio unit (HBS) that provides up to 250 Mbps net aggregate throughput while delivering access connectivity for up to 16 Subscriber Units (HSU).

RW-5LB5-9164 supports 5.1 to 6.4 GHz and complies with Universal regulations.

The radio comes with an integrated antenna.

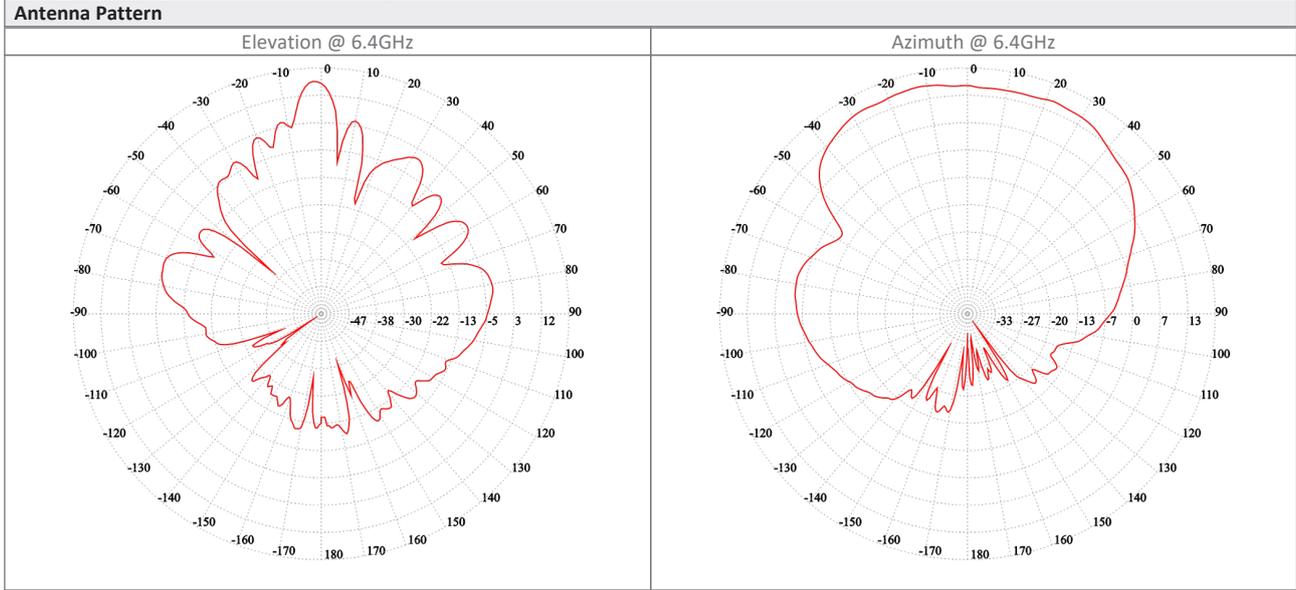
Product Highlights

- Up to 250 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

Product 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 support	Up to 16 subscriber units			
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/256QAM)			
Adaptive Modulation & Coding	Supported			
Smart Bandwidth Management (DBA)	Supported			
DFS	Not Supported			
Diversity	Supported			
Max Tx Power	24 dBm per chain			
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)			
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric			
End to End Latency	Typical: 3.5msec @ 2 SUs; 20msec @ 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	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
5.1 GHz Universal	5.100-5.950	5.100-5.950	5.100-5.950	Universal
6.4 GHz Universal (default)	5.950-6.425	5.950-6.425	5.950-6.425	Universal
Mechanical				
ODU Dimensions	37.0(w) x 37.0(h) x 11.5(d) cm			
ODU Weight	3.4 kg / 7.50 lbs			
Mounting Kit	Included			
Power				
Power Feeding	Power provided over ODU-IDU cable			
Power Consumption	<13W			
Network Device	802.3at Class 4 (30W)			
AC POE	RW-9921-400x			
DC POE	RW-9921-2069			
Package Content				
Package	Radio unit with integrated antenna, pole/wall mounting kit, IP67 gland for POE port			
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)			
MTBF	4,075,000 hours (Telcordia SR332 @25°C)			
Wind Resistance operational	180Km/h			
Safety				
US/CAN (cTUVus)	UL 62368-1:2014, UL 60950-22:2017, CAN/CSA-C22.2 NO. 62368-1-14, CAN/CSA-C22.2 No. 60950-22:17			
EU/Intl	IEC 62368-1:2014, EN 62368-1:2014/A11:2017, IEC 60950-22:2016, EN 60950-22:2017			
EMC				
FCC	47 CFR, Part15, Subpart B, Class B			
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4			
Canada	CISPR 22-2010 Class B			

Integrated Antenna	
Gain	16 dBi
Detailed Gain	16 dBi
VSWR	2.0 : 1
3 dB Azimuth Beamwidth	90 Deg. (Typ)
3 dB Elevation Beamwidth	7 Deg. (Typ)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	-25 dB(typ)
Cross Polarization	-27dB (typ)
F/B Ratio	-30 dB
Port To Port Isolation	40 dB (typ)
Lightning Protection	DC Grounded



Ordering Info

Part Number: RW-5LB5-9164

Description: RADWIN 5000L ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 6.4 GHz Universal.

* May be limited by regulation in the specific band being used

Datasheet information can be changed by manufacturer without prior notice