

RADWIN HPMP HBS 5200 Series

Sector Base Station - Data Sheet (RW5000/HBS-Pro/5200/F54/UNI/INT)



RW-5200-9154

Product Description

RW-5200-9154 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).

RW-5200-9154 supports 4.9 to 5.9 GHz and complies with FCC/IC, WPC, Universal, MII & FCC regulations.

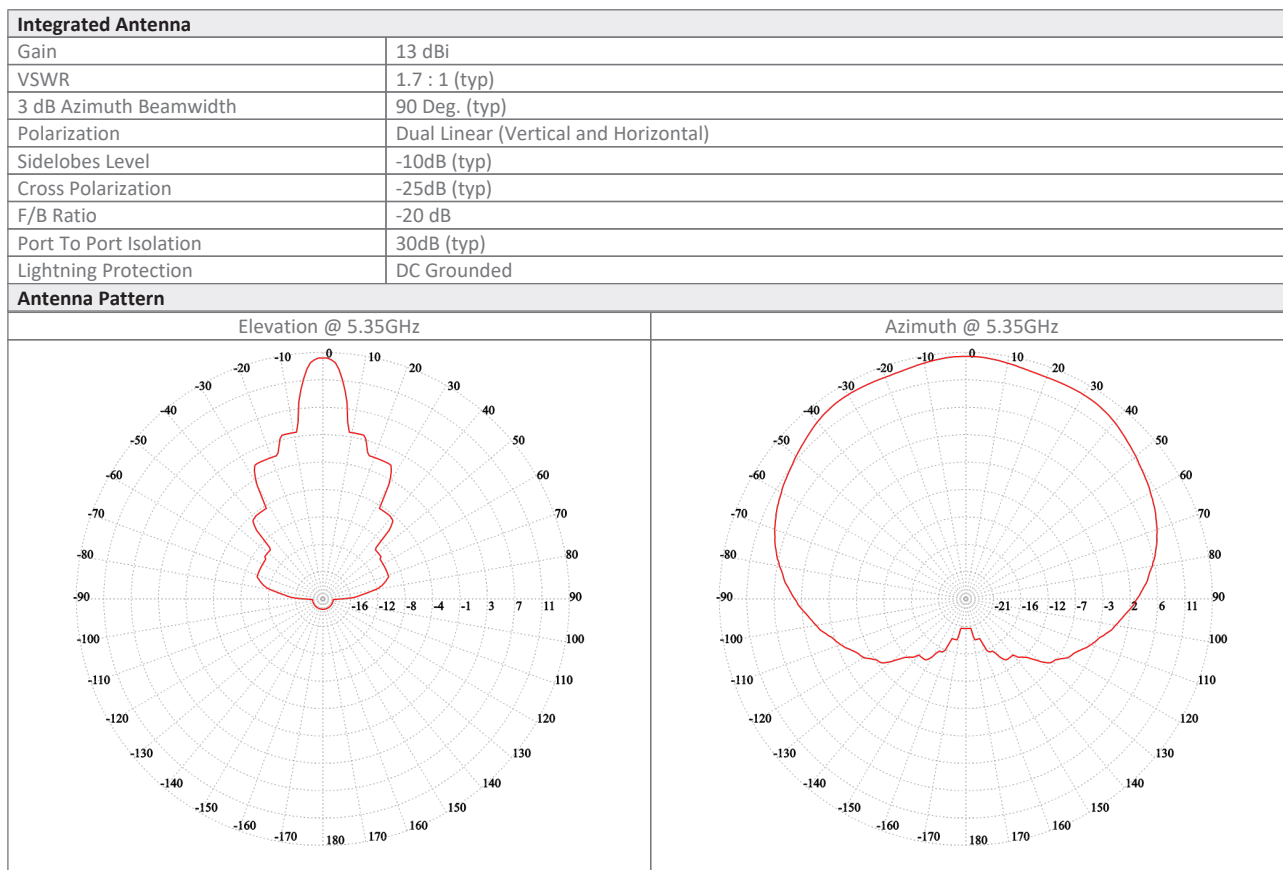
The radio comes with an integrated antenna.

Product Highlights

- Up to 250 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Supports up to 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

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 (HSUs) support	Up to 32 HSUs				
Range	Up to 40 km / 25 miles				
Channel Bandwidth	Configurable: 5, 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 (FCC)				
Diversity	Supported				
Max Tx Power	25 dBm				
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)				
Support Indoor units	RADWIN PoE devices (RW-9921-101X)				
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				
Option 82	Supported				
Nomadic subscribers	Supported				
RADIUS Authorization	Supported				
RADIUS User authentication	Supported				
Syslog	Supported				
Supported Bands					
Band	CBW 5MHz [GHz]	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	Radio Compliance
5.8 GHz FCC/IC	5.7275-5.8475	5.730-5.845	5.730-5.845	5.730-5.845	FCC 47CFR Part 15.407; ISSED RSS-247
5.8 GHz WPC	5.8275-5.8725	5.825-5.875	5.825-5.875	5.825-5.875	WPC (India) G.S.R 38(E) dated 19 January, 2007 Notification
5.4 GHz Universal (default)	5.4725-5.7225	5.470-5.725	5.465-5.730	5.455-5.740	Universal
5.1 GHz Universal	5.1475-5.3375	5.145-5.340	5.140-5.345	5.130-5.355	Universal
5.9 GHz Universal	5.7275-5.9525	5.725-5.955	5.720-5.960	5.710-5.970	Universal
4.9 GHz Universal	4.8975-4.9925	4.900-4.995	4.900-4.995	4.900-4.995	Universal
5.8 GHz MII	5.7275-5.8475	5.725-5.850	5.725-5.850	5.725-5.850	CMIIT RTA
5.4 GHz FCC	-	-	5.480-5.715	5.480-5.715	FCC 47CFR Part 15.407
5.2 GHz FCC	-	-	5.255-5.340	5.255-5.340	FCC 47CFR Part 15.407
5.1 GHz FCC	5.1725-5.2475	5.170-5.250	5.170-5.250	5.170-5.250	FCC 47CFR Part 15.407
5.9 GHz Universal	5.7275-5.8475	5.725-5.850	5.725-5.850	5.725-5.850	Universal
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				



Ordering Info

Part Number: RW-5200-9154

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

Datasheet information can be changed by manufacturer without prior notice