

RADWIN HPMP HBS LFF Model

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



RW-5200-9254

Product Description

RW-5200-9254 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-5200-9254 supports 4.9 to 6 GHz and complies with Universal & FCC/IC regulations. The radio is connectorized for external antenna (2 x N-type).

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 connectorized for external antenna (2 x N-type)					
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 32 subscriber units					
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	Not Supported					
Diversity	Supported					
Max Tx Power	25 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)					
Support Indoor units	RADWIN PoE devices (RW-9921-101X)					
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric					
End to End Latency	Typical: 3.5msec @ 2 SUs; 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]	CBW 80MHz [GHz]	Radio Compliance
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	-	5.145-5.340	5.140-5.345	5.130-5.355	-	Universal
5.9 GHz Universal	-	5.725-5.955	5.720-5.960	5.710-5.970	-	Universal
6.0 GHz Universal	-	5.695-6.055	5.690-6.060	5.680-6.070	-	Universal
5.8 GHz Universal	-	5.725-5.850	5.725-5.850	5.725-5.850	-	Universal
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
4.9 GHz Universal	-	4.900-4.995	4.900-4.995	4.900-4.995	4.900-4.995	Universal
Mechanical						
ODU Dimensions	28(w) x 19.5(h) x 8(d) cm					
ODU Weight	2.4 kg / 5.29 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-5200-9254

Description: RADWIN HBS LFF ODU, connectorized for external antenna (2 x N-type), supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz Universal.

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

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Datasheet information can be changed by manufacturer without prior notice