

RADWIN HPMP HBS 5200 Series

Sector Base Station - Data Sheet



RW-5200-0250

Product Description

RW-5200-0250 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-5200-0250 supports 4.9 to 6 GHz and complies with FCC/IC, Universal, IC, WPC & MII regulations.

The radio is connectorized for external antenna (2 xN-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 xN-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 (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	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)				
Adaptive Modulation & Coding	Supported				
Smart Bandwidth Management (DBA)	Supported				
DFS	Not Supported (for the default band)				
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				
Supported Bands					
Band	Channel BW 5MHz [GHz]	Channel BW 10MHz [GHz]	Channel BW 20MHz [GHz]	Channel BW 40MHz [GHz]	Radio Compliance
4.9 GHz FCC/IC	4.9425-4.9875	4.940-4.990	4.940-4.990	-	FCC 47CFR Part 90 Subpart Y; IC RSS-111
4.9 GHz Universal	4.8975-4.9925	4.895-4.995	4.890-5.000	4.880-5.000	Universal
5.1 GHz Universal	5.1475-5.3375	5.145-5.340	5.140-5.345	5.130-5.355	Universal
5.2 GHz FCC/IC	5.2525-5.3475	5.255-5.345	5.255-5.345	5.255-5.345	FCC 47CFR Part 15.407; IC RSS-210
5.4 GHz FCC/IC	5.4775-5.7175	5.480-5.715	5.480-5.715	5.480-5.715	FCC 47CFR Part 15.407; IC RSS-210
5.4 GHz IC	5.4775-5.7175	5.480-5.715	5.480-5.715	5.480-5.715	IC RSS-210
5.4 GHz Universal	5.4725-5.7225	5.470-5.725	5.465-5.730	5.455-5.740	Universal
5.8 GHz FCC/IC (default)	5.7275-5.8475	5.725-5.850	5.725-5.850	5.725-5.850	FCC 47CFR Part 15.247; IC RSS-210
5.8 GHz WPC	5.8275-5.8725	5.825-5.875	5.825-5.875	5.815-5.885	WPC (India) G.S.R 38(E) dated 19 January, 2007 Notification
5.9 GHz Universal	5.7275-5.9525	5.725-5.955	5.720-5.960	5.710-5.970	Universal
6.0 GHz Universal	5.6975-6.0525	5.695-6.055	5.690-6.060	5.680-6.070	Universal
5.8 GHz MII	5.7375-5.8375	5.735-5.840	5.730-5.845	5.720-5.855	CMIIT RTA
5.0 GHz Universal	4.9975-5.1525	4.995-5.155	4.990-5.160	4.980-5.170	Universal
5.2 GHz FCC/IC	5.2525-5.8475	5.255-5.850	5.255-5.850	5.255-5.850	FCC 47CFR Part 15.407; IC RSS-210
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 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				

Ordering Info

Part Number: RW-5200-0250

Description: RADWIN HBS 5200 ODU, connectorized for external antenna (2 xN-type), supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz FCC/IC.