

RADWIN 5000 – HPMP

Sector Base Station RW-5200-0150 – Data Sheet

HBS 5200 SERIES



Sector Base Station - RW-5200-0150

RADWIN RW-5200-0150 is a Sector Base Station Radio unit, with high gain integrated antenna of 90°, providing up to 250Mbps net aggregate throughput and delivering access connectivity up to 32 Subscriber Units (HSUs).

RW-5200-0150 supports from 4.9 to 6.0 GHz and complies with FCC, IC (Canada), WPC (India), MII (China) and universal regulations. RW-5200-0150 comes.

Product Highlights

- High Capacity sector Base Station
- Up to 250 Mbps net aggregate throughput
- Guaranteed Service level Agreement (SLA) per SU
- Outstanding low and constant latency
- Support up to 32 HSUs
- Long range – up to 40 km/25 miles
- Single radio supporting multiple bands
- Advanced MIMO, OFDM and Diversity technologies
- Excellent operation in nLOS and NLOS scenarios
- Ease of operation and maintenance

RW-5200-0150 - Product Specifications

CONFIGURATION	
Architecture	Outdoor Unit with Integrated Antenna
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT
RADIO	
Capacity	250 Mbps net aggregate throughput @ 10MHz Channel BW
Subscriber Units (HSUs) support	Up to 32 HSUs
Range	Up to 40 km / 25 miles
Channel Bandwidth	Configurable: 5, 10, 20 or 40 MHz
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)
Adaptive Modulation & Coding	Supported
Bandwidth allocation	Symmetric and Asymmetric
DFS	Supported
End to End Latency	Typical: 3.5msec @ 2 HSUs; 20msec @ 32 HSUs
Diversity	Supported
Spectrum Viewer	Supported
Max Tx Power	25 dBm
Duplex Technology	TDD
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6
Encryption	AES 128
Ethernet Interface	10/100BaseT, 1000BaseT (supported via indoor PoE device)
Layer 2	Bridging learning of 5K MAC addresses
QoS	Supported, Packet classification to 4 queues according to 802.1p and Diffserv
VLAN	Supported, 802.1Q, 8021.P, QinQ
TDD Intra Site Synchronization	Supported
TDD Inter Site Synchronization	Supported through common GPS receiver per site

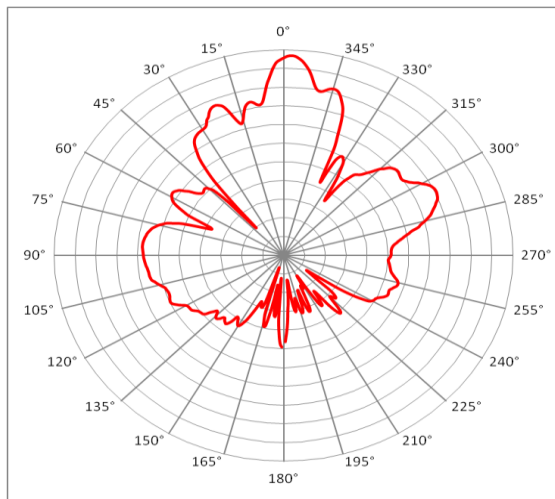
SUPPORTED BANDS RW-5200-0150		
5.8 GHz FCC/IC*	5.725 - 5.850 GHz	FCC 47CFR, Part 15, Subpart C and IC RSS-210
5.8 GHz MII	5.730 - 5.845 GHz	II for 5.8 GHz
5.8 GHz WPC India	5.825 - 5.875 GHz	WPC GSR-38
5.4 GHz FCC	5.480 - 5.715 GHz	FCC 47CFR, Part 15, Subpart E
5.4 GHz IC	5.480 - 5.715 GHz	IC RSS-210
5.3 GHz FCC/IC	5.255 - 5.350 GHz	FCC 47CFR, Part 15, Subpart E and IC RSS-210
4.9 GHz FCC/IC	4.940 - 4.990 GHz	FCC 47CFR, Part 90, Subpart Y and IC RSS-111
6.0 GHz Universal	5.690 - 6.060 GHz	Universal
5.9 GHz Universal	5.730 - 5.960 GHz	Universal
5.4 GHz Universal	5.465 - 5.730 GHz	Universal
5.3 GHz Universal	5.140 - 5.345 GHz	Universal
5.0 GHz Universal	4.990 - 5.160 GHz	Universal
4.9 GHz Universal	4.890 - 5.010 GHz	Universal
*Default Band		
MECHANICAL		
ODU Dimensions	20(w) x 50(h) x 14.0(d) cm	
ODU Weight	3.5 kg / 7 lbs	
POWER		
Power Feeding	Power provided over ODU-IDU cable using PoE	
Power Consumption	<25W	
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	
AS/NZS	CISPR 22-2004 Class B	

Integrated Antenna

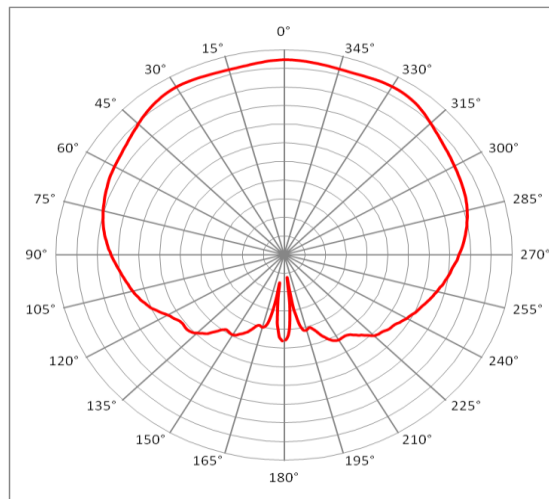
Gain	13 dBi
VSWR	1.5 : 1 (typ)
3 dB Beamwidth	90° (typ)
AZ & EL Beam Squint	± 2° Port V & Port H
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	ETSI EN 302 085 V1.1.2, TS1-TS3
Cross Polarization	ETSI EN 302 085 V1.1.2, TS1-TS3
F/B Ratio	-35 dB (max)
Port To Port Isolation	40 dB (min)
Lightning Protection	DC grounded

Antenna Pattern

Elevation @ 5.8GHz



Azimuth @ 5.8GHz



Ordering Info

Part Number: RW-5200-0150

Description: RADWIN HBS 5200 Series Subscriber Unit Radio with integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz FCC/IC

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