RADWIN 5000 – HPMP

Sector Base Station – Data Sheet

HBS 5200 SERIES

Sector Base Station - RW-5200

RADWIN RW-5200 is a series of carrier-class Sector Base Station Radio units, providing up to 200Mbps net aggregate throughput and delivering access connectivity to up 16 Subscriber Units (SUs).

RW-5200 series supports 4.8 to 6 GHz and 3.3 to 3.8 GHz licensed band and complies with ETSI, FCC, IC (Canada), WPC (India), MII (China) and universal regulations.

RADWIN RW-5200-X2XX is connectorized for use with external antenna.

Product Highlights

- High Capacity sector Base Station
- Up to 200 Mbps aggregated throughput
- Guaranteed Service level Agreement (SLA) per SU
- Outstanding short and constant latency
- Support up to 16 SUs
- 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
- Robust and reliable to operate in tough conditions, extreme temperatures
- Ease of operation and maintenance

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HBS 5200 Series - Product Specifications

CONFIGURATION		
Architecture	Outdoor Unit Connectorized for External Antenna	
IDU/PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100 m	
RADIO		
Capacity	100 Mbps net aggregate (@20MHz), 200[1] Mbps net aggregate (@40MHz)	
Subscriber Units (SUs) support	Up to 16 SUs	
Range	Up to 40 km / 25 miles	
Channel Bandwidth	Configurable: 10[1], 20 , 40[1] MHz	
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)	
Adaptive Modulation & Coding	Supported	
Bandwidth allocation	Configurable: Symmetric or Asymmetric [1]	
DFS	Supported	
End to End Latency	Typical: Min < 3msec, Typical: 4msec @ 4 SUs. 10msec @ 16 SUs	
Diversity	Supported[1]	
Spectrum Viewer	Supported[1]	
Max Tx Power	25 dBm[2]	
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 [1] Packet classification to 4 queues according to 802.1p and Diffserv,	
VLAN	Supported [1] 802.1Q, 802.1P, QinQ	
TDD Intra Site Synchronization	Supported	
TDD Inter Site Synchronization	Supported through common GPS receiver per site	
FCC, MII - SUPPORTED BANDS RW-5200		
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	MII for 5.8 GHz
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	5.260 - 5.340 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
3.65 GHz FCC[3]	3.650 - 3.675 GHz	FCC 47CFR, Part 90 – Restricted Mode
3.5 GHz IC[3]	3.450 - 3.650 GHz	IC RSS 192, issue-3
ETSI - SUPPORTED BANDS RW-5200		
BAND	**OCCUPIED FREQUENCY RANGE**	**RADIO COMPLIANCE**
5.8 GHz ETSI	5.735 - 5.865 GHz	ETSI EN 302 502
5.4 GHz ETSI	5.480 - 5.715 GHz	ETSI EN 301 893
5.3 GHz ETSI	5.160 - 5.340 GHz	ETSI EN 301 893
3.4-3.7 GHz ETSI[3]	3.403 - 3.710 GHz	EN 302 326-2 V1.2.2
WPC- SUPPORTED BANDS RW-5200		
5.8 GHz WPC India	5.825- 5.875 GHz	WPC GSR-38
UNIVERSAL- SUPPORTED BANDS RW-5200		
4.8 - 6.0 GHz	4.800 - 6.060 GHz	Universal
3.3 - 3.8 GHz[3]	3.300 - 3.800 GHz	Universal
MECHANICAL		
ODU Dimensions	19.5(w) x 27.0(h) x 8.0(d) cm	
ODU Weight	1.8 kg / 3.6 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	

Note 1 –Feature will be provided by Q3/2011 through software upgrade

Note 2 –Subject to regulation in each country

Note 3 –Dedicated product, due on Q3/2011

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