

RADWIN 5000 – HPMP

Sector Base Station RW-5100-2230

Data Sheet

HBS 5100 SERIES



Sector Base Station - RW-5100-2230

RADWIN RW-5100-2230 is a Sector Base Station Radio unit, providing up to 100Mbps net aggregate throughput and delivering access connectivity up to 32 Subscriber Units (HSUs).

RW-5100-2230 supports 3.400 to 3.700 GHz and complies with ETSI regulations.

RADWIN RW-5100-2230 is connectorized for use with external antenna.

Product Highlights

- High Capacity sector Base Station
- Up to 100 Mbps aggregated throughput
- Guaranteed Service level Agreement (SLA) per HSU
- Outstanding short 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
- Robust and reliable to operate in tough conditions, extreme temperatures
- Ease of operation and maintenance

Corporate Headquarters, T. +972.3.766.2900, E. sales@radwin.com, www.radwin.com

The RADWIN name is a registered trademark of RADWIN Ltd.

© All rights reserved, May 2012 DS RW-5100-2230 /05.12, Software Release 3.3.10

RADWIN

HBS RW-5100-2230 - Product Specification

CONFIGURATION	
Architecture	Outdoor Unit Connectorized for External Antenna
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT
RADIO	
Capacity	100 Mbps net aggregate throughput @ 20MHz
Subscriber Units (HSUs) support	Up to 32 HSUs
Range	Up to 40 km / 25 miles
Channel Bandwidth	Configurable: 5, 10 and 20 MHz
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)
Bandwidth allocation	Symmetric and Asymmetric
Adaptive Modulation & Coding	Supported
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, 802.1P, QinQ
TDD Intra Site Synchronization	Supported
TDD Inter Site Synchronization	Supported through common GPS receiver per site

Note (*) –Subject to regulation in each country

SUPPORTED BANDS		
Band	Occupied Frequency Range	Radio Compliance
3.5 GHz ETSI*	3.477.5-3.602.5 GHz	EN_302_326-2_V1.2.2
3.4 GHz ETSI	3.410.5-3.482.5 GHz	EN_302_326-2_V1.2.2
3.6 GHz ETSI	3.597.5-3.702.5 GHz	EN_302_326-2_V1.2.2
*Default Band		
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	

Ordering Info

Part Number: RW-5100-2230

Description: RADWIN HBS 5100 Series, Base Station Radio Connectorized for external antenna (2xN-type), supporting 3.5 GHz ETSI band