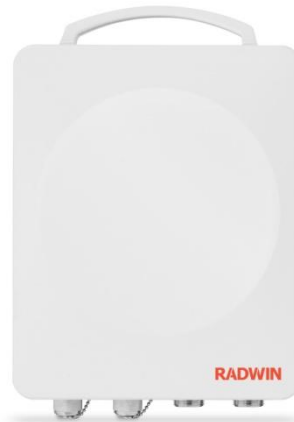


## RADWIN 5000 – HPMP

Sector Base Station RW-5100-0230

Data Sheet

HBS 5100 SERIES



### Sector Base Station - RW-5100-0230

RADWIN RW-5100-0230 is a Sector Base Station Radio unit, providing up to 100Mbps net aggregate throughput and delivering access connectivity for up to 16 Subscriber Units (HSUs).

RW-5100-0230 supports 3.300 to 3.800 GHz and complies with FCC and IC regulations. RADWIN RW-5100-0230 is connectorized for use with an 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 16 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

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**RADWIN**

## HBS RW-5100-0230 - Product Specification

<b>CONFIGURATION</b>	
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
<b>RADIO</b>	
Capacity	100 Mbps net aggregate throughput @ 20MHz
Subscriber Units (HSUs) support	Up to 16 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
Bandwidth allocation	Symmetric Asymmetric
DFS	Supported
End to End Latency	Typical: 3.5msec @ 2 HSUs; 15msec @ 16 HSUs
Diversity	Supported
Spectrum Viewer	Supported
Max Tx Power	25 dBm (1)
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

<b>SUPPORTED BANDS RW-5100-0230</b>		
Band	Occupied Frequency Range	Radio Compliance
3.6 GHz FCC/IC*	3.650 - 3.675 GHz	FCC 47CFR, Part 90 – Restricted Mode
3.5 GHz IC	3.475- 3.650 GHz	IC RSS 192, issue-3
3.x GHz Universal	3.290 – 3.810 GHz	
*Default Band		
<b>MECHANICAL</b>		
ODU Dimensions	19.5(w) x 27.0(h) x 8.0(d) cm	
ODU Weight	1.8 kg / 3.6 lbs	
<b>POWER</b>		
Power Feeding	Power provided over ODU-IDU cable using PoE	
Power Consumption	<25W	
<b>ENVIRONMENTAL</b>		
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)	
<b>SAFETY</b>		
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	
<b>EMC</b>		
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-5100-0230

**Description:** RADWIN HBS 5100 Series, Base Station Radio Connectorized for external antenna (2xN-type), supporting multi frequency bands at 3.x GHz, factory default 3.6 GHz FCC/IC