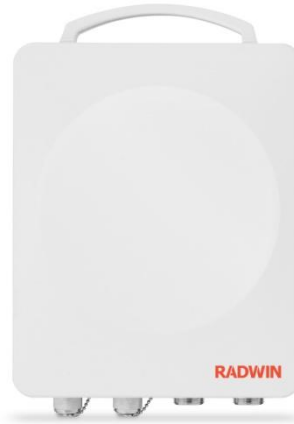


RADWIN 5000 – HPMP

Sector Base Station RW-5050-9254

Data Sheet

HBS 5050 SERIES



Sector Base Station - RW-5050-9254

RADWIN RW-5050-9254 is a Sector Base Station Radio unit, providing up to 50Mbps net aggregate throughput and delivering access connectivity for up to 16 Subscriber Units (HSU).

RW-5050-9254 supports 5.X GHz and complies with FCC and universal regulations.

RADWIN RW-5050-9254 is connectorized for use with an external antenna.

Product Highlights

- High Capacity sector Base Station
- Up to 50 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

HBS 5050-9254 - 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	50 Mbps net aggregate throughput @ 10MHz Channel BW
Subscriber Units (HSUs) support	Up to 16 HSUs
Range	Up to 40 km / 25 miles
Channel Bandwidth	Configurable: 5 and 10 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; 15msec @ 16 HSUs
Diversity	Supported
Spectrum Viewer	Supported
Max Tx Power	23 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

SUPPORTED BANDS RW-5050-9254		
5.4 GHz Universal*	5.465 - 5.730 GHz	Universal
6.0 GHz Universal	5.690 - 6.060 GHz	Universal
5.9 GHz Universal	5.730 - 5.960 GHz	Universal
5.3 GHz Universal	5.140 - 5.345 GHz	Universal
4.9 GHz Universal	4.890 - 5.010 GHz	Universal
5.8 GHz FCC/IC	5.725 - 5.850 GHz	FCC 47CFR, Part 15, Subpart C and IC RSS-210
4.9 GHz FCC/IC	4.940 - 4.990 GHz	FCC 47CFR, Part 90, Subpart Y and IC RSS-111
*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-5050-9254

Description: RADWIN HBS 5050 Series, Base Station Radio Connectorized for external antenna (2xN-type), supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz Universal