

RADWIN MultiSector, MS Int. Model

Sector Base Station - Data Sheet (RW5000/HBS-MS-PRO/5PG5/F54/ETSI/128/INT)



RW-5PG5-2154

Product Description

RADWIN MultiSector base station is a compact 5.x GHz dual-carrier base station that can support up to 4 antennas: two integrated, and two external.

Each carrier feeds one integrated and one external antenna and boosts them with up to 750Mbps net throughput. The integrated 90° antennas together cover 180°.

The external antennas are connected to the base station over TNC connectors, either as a self-backhaul or as sector antennas, extending the coverage up to 360°.

The MultiSector base station includes a built in GPS receiver and antenna for TDD synchronization. It is connected to the WAN over single PoE or SFP.

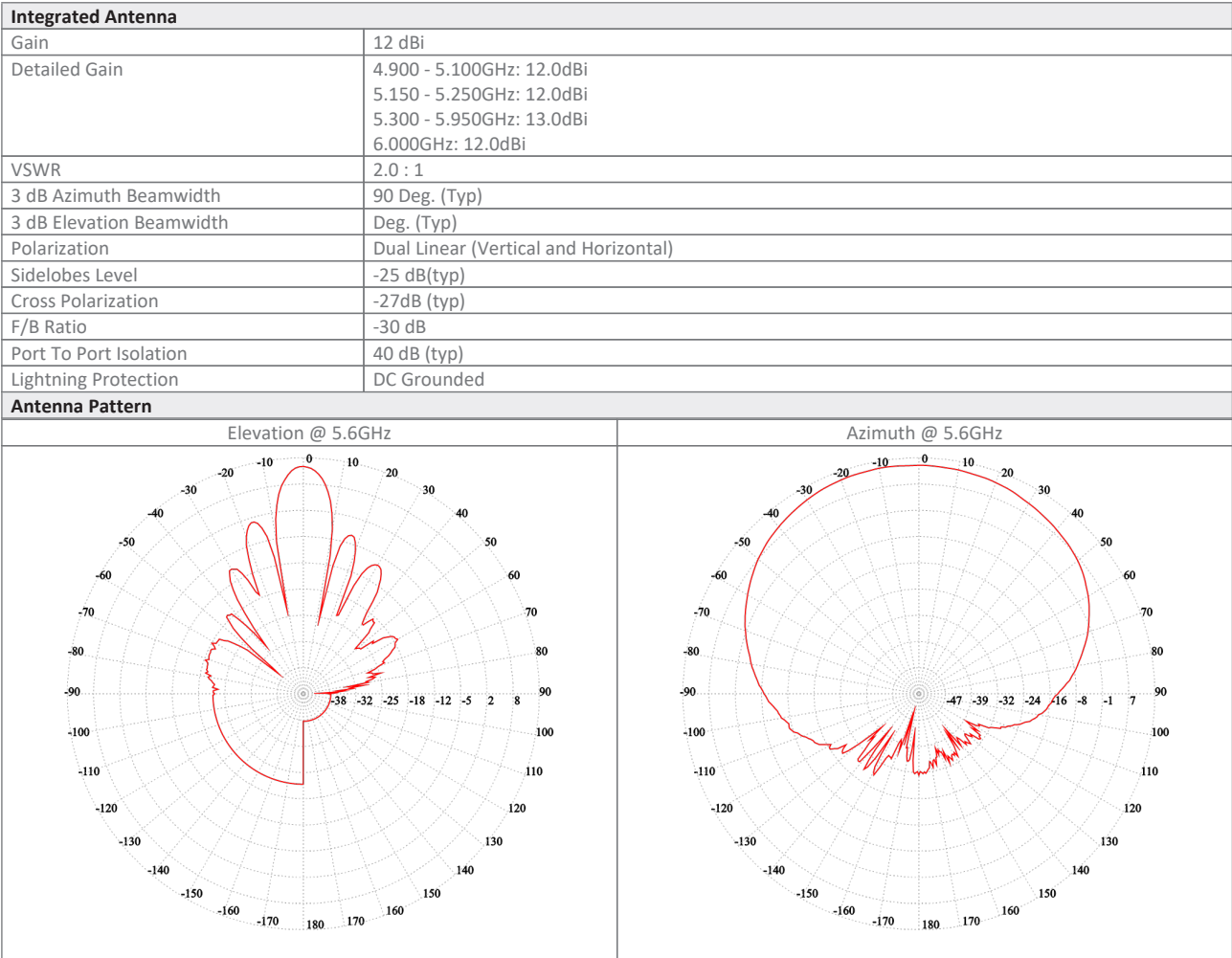
RW-5PG5-2154 supports 5.4 to 5.8 GHz.

Product Highlights

- Dual-carrier base station
 - Up to 1.5Gbps (2x750Mbps) net aggregated throughput
 - Supports up to 4 antennas: - 2x integrated sector antennas - 2x external antennas (TNC connectors)
 - Optional self-backhaul
 - Supports up to 128 SUs
 - Best-Effort or CIR service level per SU
 - Short range applications
 - RADWIN class-leading air interface
 - Auto MIMO 2x2/Diversity per SU
 - Robust and reliable operation in harsh conditions and extreme temperatures
 - IP-67 compliant
 - Exceptionally compact and easy installation
 - Compatible with RADWIN installed base *
- *Supports SUs and HSUs with software version 4.9.35 and above

Product Specifications:

Configuration					
Architecture	Outdoor unit with 2 integrated MIMO antennas and additional connectors for 2 external MIMO antennas (4 x TNC)				
PoE to ODU Interface MS	Outdoor CAT-5e; Maximum cable length: 75m for 1000BaseT				
Data Interfaces	10/100/1000 Mbps RJ45 PoE or 1Gbps SFP				
Radio					
Max Capacity	1.5 Gbps net aggregate throughput				
Subscriber Units support	Up to 128 subscriber units				
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band)				
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Adaptive Modulation & Coding	Supported				
Smart Bandwidth Management (DBA)	Supported				
DFS	Supported (ETSI)				
Diversity	Supported				
Max Tx Power	23 dBm per chain; max EIRP 30 dBm (for the default band)				
ATPC	Supported (uplink)				
Duplex Technology	TDD				
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6				
Encryption	AES 128				
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric				
End to End Latency	Typical: 3.5msec @ 2 SUs				
Layer 2	Bridging learning of 8K MAC addresses				
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv				
VLAN Support	802.1Q, QinQ, 4094 VLANs				
TDD Intra Site Synchronization	Supported via built-in GPS receiver				
TDD Inter Site Synchronization	Supported via built-in GPS receiver				
ODU Management	IPv4/IPv6 dual-stack; SNMPv1, SNMPv3; HTTP/HTTPS using web browser				
IGMP snooping	Supported				
Supported Bands					
Band	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	Radio Compliance
5.4 GHz ETSI (default)	5.475-5.705	5.470-5.710	5.490-5.690	5.490-5.650	ETSI EN 301 893
5.8 GHz ETSI	5.735-5.865	5.735-5.865	-	-	ETSI EN 302 502
Mechanical					
ODU Dimensions	24.0(w) x 34.0(h) x 24.0(d) cm				
ODU Weight	4.0 kg / 8.82 lbs				
Mounting Kit	Included				
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<30W				
Network Device					
AC POE	RW-9921-400x				
DC POE	RW-9921-2069				
Package	Radio unit with integrated antenna and RF connectors, pole/wall mounting kit, IP67 glands for POE and SFP ports				
Environmental					
Operating Temperatures	-35°C to 60°C / -31°F to 140°F				
Humidity	100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m)				
MTBF	TBD hours (Telcordia SR332 @25°C)				
Wind Resistance operational	180Km/h				
Safety					
US/CAN (cTUVus)	UL 62368-1:2014, UL 60950-22:2017, CAN/CSA-C22.2 NO. 62368-1-14, CAN/CSA-C22.2 No. 60950-22:17				
EU/Intl	IEC 62368-1:2014, EN 62368-1:2014/A11:2017, IEC 60950-22:2016, EN 60950-22:2017				
EMC					
FCC	47 CFR, Part15, Subpart B, Class B				
ETSI	EN 301 489-1, EN 301 489-4, 301 489-17				
Canada	ICES-003				
AS/NZS	CISPR 32:2015 Class B				



Ordering Info
Part Number: RW-5PG5-2154
Description: RADWIN MS Int. ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz ETSI.

* May be limited by regulation in the specific band being used

Datasheet information can be changed by manufacturer without prior notice