

RADWIN HPMP NEO Model

Sector Base Station - Data Sheet (RW5000/HBS/5AG4-NO-SFP/F54/ETSI/NEO/INT)



RW-5AG4-2854

Product Description

RW-5AG4-2854 is a sector Base Station radio unit (HBS) that provides up to 750 Mbps net aggregate throughput, while delivering access connectivity for up to 64 SUs

RW-5AG4-2854 includes separate smart beamforming antenna with embedded GPS unit.

RW-5AG4-2854 supports 5.4 to 5.8 GHz.

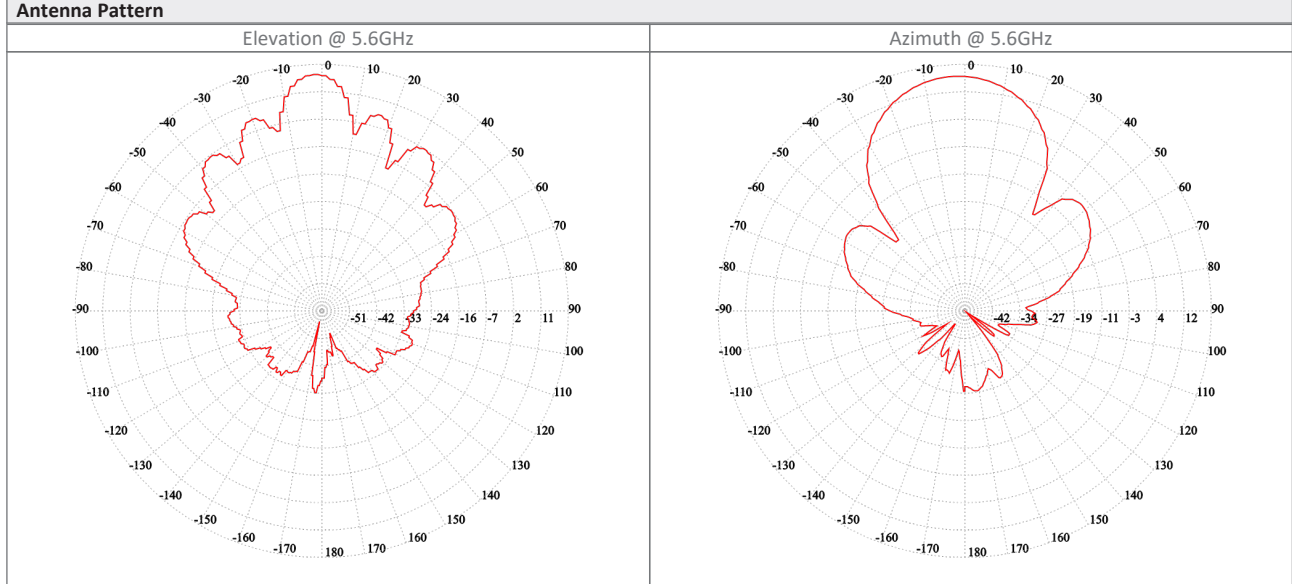
Product Highlights

- Smart beamforming antenna
- Up to 750 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Best Effort service
- Support up to 64 SUs
- Exceptional short and constant latency
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable operation in harsh conditions, extreme temperatures and non-line-of-sight scenarios
- Ease of operation and maintenance

Product Specifications:

Configuration				
Architecture	Outdoor Unit with a smart beamforming integrated antenna with embedded GPS			
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT			
Radio				
Max Capacity	750 Mbps net aggregate throughput			
Subscriber Units support	Up to 64 subscriber units			
Channel Bandwidth	Configurable: 20, 40, 80 MHz (for the default band); Dynamic Channel BW selection (20/40/80 MHz)			
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)			
Adaptive Modulation & Coding	Supported			
Smart Bandwidth Management (DBA)	Best Effort Service			
DFS	Supported (ETSI)			
Diversity	Supported			
Max Tx Power	25 dBm per chain; max EIRP 30 dBm (for the default band)			
Duplex Technology	TDD			
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6			
Encryption	AES 128			
Supported Indoor units	RADWIN PoE devices (RW-9921-400X)			
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric			
End to End Latency	Typical: 3.5msec @ 2 SUs; 20msec @ 64 HSUs			
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 integrated GPS receiver			
TDD Inter Site Synchronization	Supported via integrated GPS receiver			
ODU Management	IPv4/IPv6 dual-stack; SNMPv1, SNMPv3; HTTP/HTTPS using web browser			
Supported Bands				
Band	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	Radio Compliance
5.4 GHz ETSI (default)	5.470-5.710	5.490-5.690	5.490-5.650	ETSI EN 301 893
5.8 GHz ETSI	5.735-5.865	-	-	ETSI EN 302 502
Mechanical				
ODU Dimensions	32.5(w) x 32.5(h) x 9(d) cm			
ODU Weight	3.35 kg / 7.39 lbs			
Power				
Power Feeding	Power provided over ODU-IDU cable			
Power Consumption	<25W			
Environmental				
Operating Temperatures	-35°C to 60°C / -31°F to 140°F			
Safety				
US/CAN (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22			
CE/IEC	EN/IEC 60950-1, EN/IEC 60950-22			
EMC				
FCC	47 CFR, Part15, Subpart B, Class B			
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4			
CAN/CSA-CEI/IEC	CISPR 22-2010 Class B			

Integrated Antenna	
Gain	16 dBi
VSWR	2.0 : 1
3 dB Azimuth Beamwidth	90 Deg. (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	-20 dB(typ)
Cross Polarization	-25 dB (typ)
F/B Ratio	-25 dB
Port To Port Isolation	35 dB (typ)
Lightning Protection	DC Grounded



Ordering Info

Part Number: RW-5AG4-2854

Description: RADWIN NEO ODU, with a smart beamforming integrated antenna with embedded GPS, 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