

RADWIN 5000 – HPMP

RW-5520-8125 Subscriber Unit – Data Sheet

HSU 520 SERIES



Subscriber Units - RW-5520-8125

RADWIN RW-5520-8125 Subscriber Unit (HSU) provides high capacity access connectivity of up to 20Mbps net aggregate throughput.

RW-5520-8125 works with HBS-5100 base station.

RW-5520-8125 supports 2.500 -2.700 GHz and complies with FCC regulations.

Product Highlights

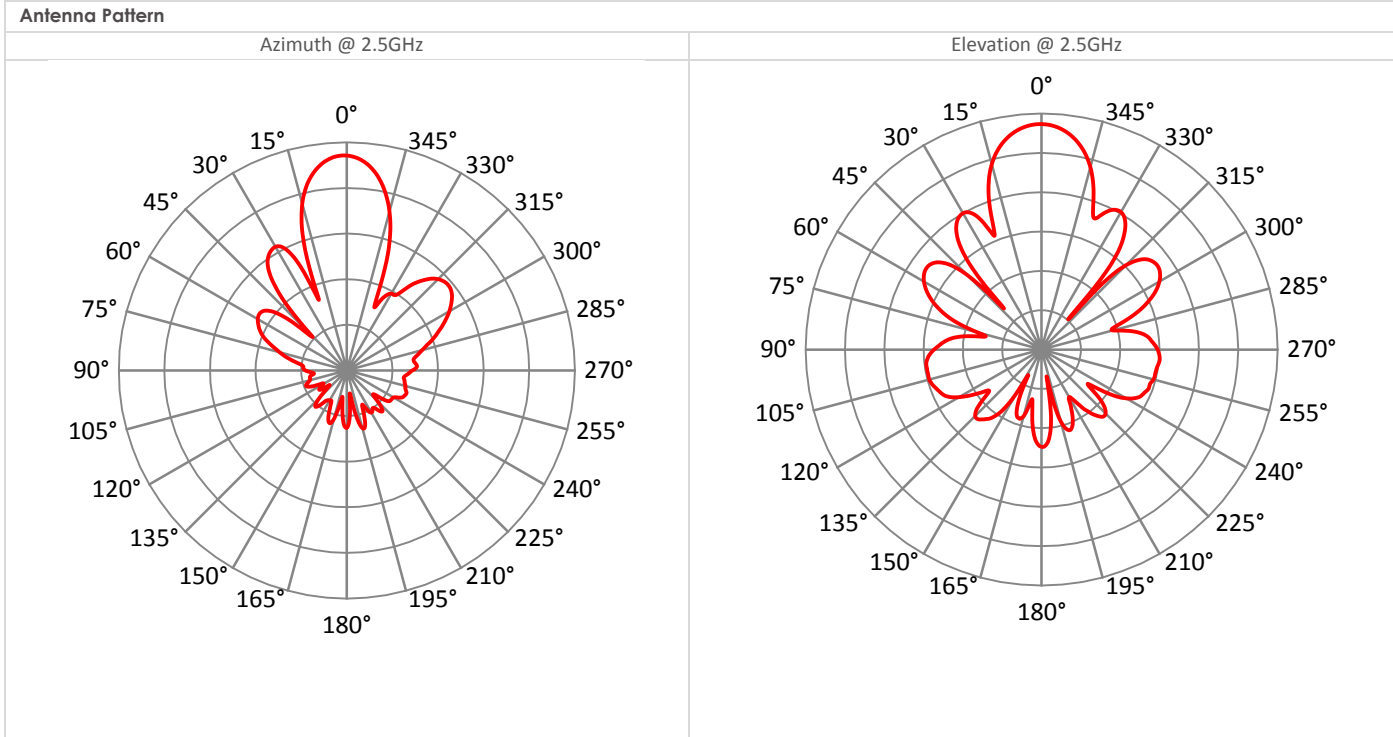
- Up to 20 Mbps net aggregate throughput
- Guaranteed Service level Agreement (SLA) per HSU
- Outstanding short and constant latency
- Long range – up to 40 km/25 miles
- Advanced MIMO, OFDM and Diversity technologies
- Excellent operation in nLOS and NLOS scenarios
- Ease of operation and maintenance

RW-5520-8125 - Product Specifications

CONFIGURATION	
Architecture	Outdoor Unit with Integrated Antenna
PoE to ODU Interface	Outdoor CAT-5e cable; Maximum cable length: 100 m
RADIO	
Capacity net aggregate throughput	20 Mbps
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
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
Supported Indoor Units	RADWIN PoE device (RW-9921-001X)
Ethernet Interface	10/100 BaseT
Layer 2	Hub Mode
QoS	Supported Packet classification to 4 queues according to 802.1p and Diffserv
VLAN	Supported 802.1Q, 8021.P, QinQ

SUPPORTED BANDS RW-5520-8125		
2.5 GHz FCC BRS	2.496-2.700 GHz	FCC 47CFR, Part 27
MECHANICAL		
ODU Dimensions	37.1(w) x 37.1(h) x 11.0(d) cm	
ODU Weight	3.5 kg / 7 lbs	
POWER		
Power Feeding	Power provided over ODU-IDU cable using PoE	
Power Consumption	<20W	
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	

Integrated Antenna		
Gain	port V	19 ± 1 dBi
	port H	19 ± 1 dBi
VSWR	port V	2.0 : 1 (max) 1.5 : 1 (typ)
	port H	2.0 : 1 (max) 1.5 : 1 (typ)
Azimuth 3 dB Beamwidth		16° (typ)
Elevation 3 dB Beamwidth		16° (typ)
AZ & EL Beam Squint		± 2° Port V & Port H ± 2° Port V & Port H
Polarization		Dual Linear (Vertical and Horizontal)
Sidelobes Level		ETSI EN 302 085 V1.1.2, TS1-TS3
Cross Polarization		ETSI EN 302 085 V1.1.2, TS1-TS3
F/B Ratio		30 dB (max)
Port To Port Isolation		30 dB (min)
Lightning Protection		DC grounded



Ordering Info

Part Number: RW-5520-8125

Description: RADWIN HSU 520 Series Subscriber Unit Radio with high gain integrated antenna supporting 2.5 GHz FCC BRS band

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