

## RADWIN 5000 – HPMP

### RW-5520-0150 Subscriber Unit – Data Sheet



#### HSU 520 SERIES

#### Subscriber Units - RW-5520-0150

RADWIN RW-5520-0150 Subscriber Unit (HSU) provides high capacity access connectivity of up to 20Mbps net aggregate throughput.

RW-5520-0150 works with HBS-5200 base station.

RW-5520-0150 supports from 4.9 to 6 GHz and complies with FCC, IC (Canada) WPC (India), MII (China) and universal 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

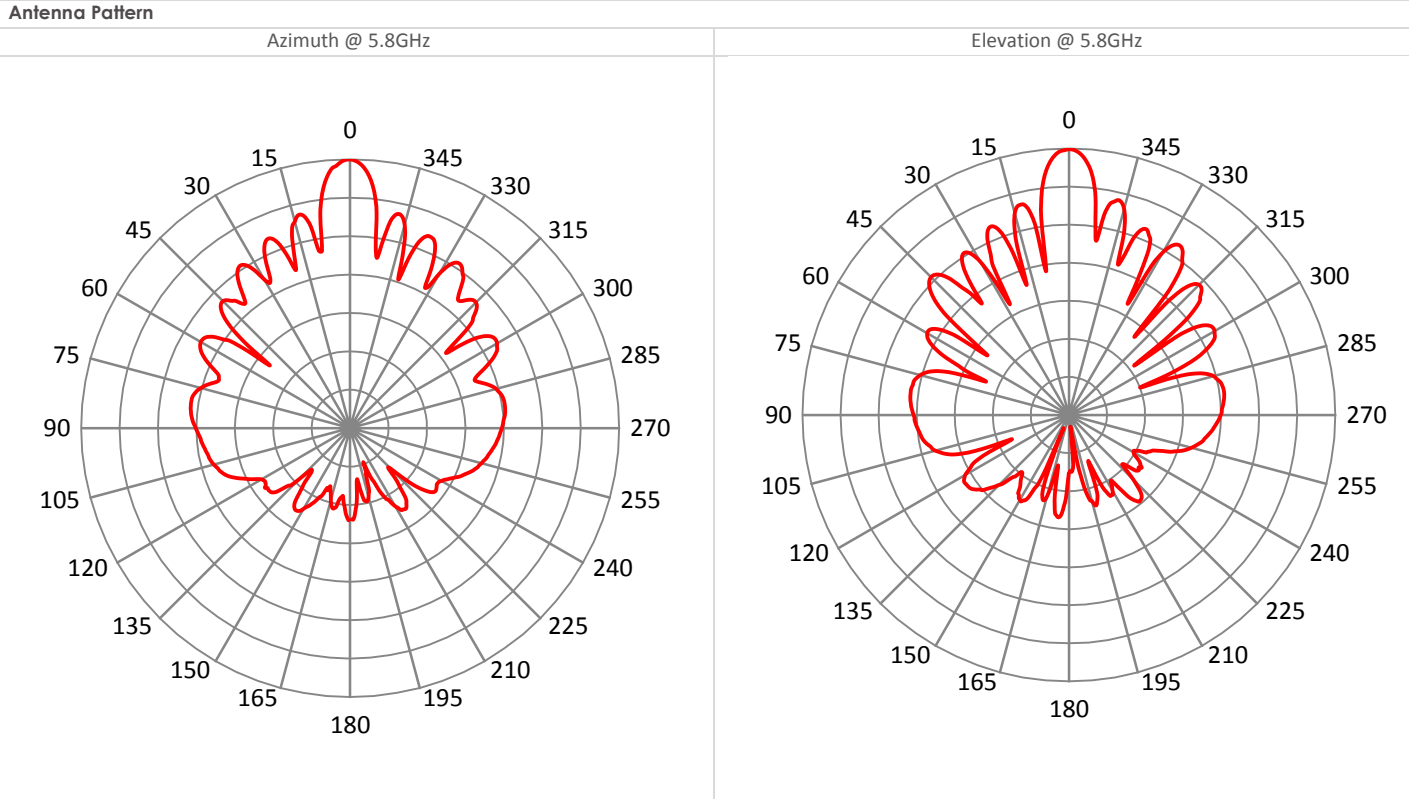
## RW-5520-0150 - Product Specifications

<b>CONFIGURATION</b>	
Architecture	Outdoor Unit with Integrated Antenna
PoE to ODU Interface	Outdoor CAT-5e cable; Maximum cable length: 100 m
<b>RADIO</b>	
Capacity net aggregate throughput	20 Mbps
Range	Up to 40 km / 25 miles
Channel Bandwidth	Configurable: 5,10, 20 and 40MHz
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

Note (\*) - Subject to regulation in each country and specific product

<b>SUPPORTED BANDS RW-5520-0150</b>		
5.8 GHz FCC/IC*	5.725 - 5.850 GHz	FCC 47CFR, Part 15, Subpart C and IC RSS-210
5.8 GHz MII	5.730 - 5.845 GHz	MI I for 5.8 GHz
5.8 GHz WPC India	5.825 - 5.875 GHz	WPC GSR-38
5.4 GHz FCC	5.480 - 5.715 GHz	FCC 47CFR, Part 15, Subpart E
5.4 GHz IC	5.480 - 5.715 GHz	IC RSS-210
5.3 GHz FCC/IC	5.255 - 5.350 GHz	FCC 47CFR, Part 15, Subpart E and IC RSS-210
4.9 GHz FCC/IC	4.940 - 4.990 GHz	FCC 47CFR, Part 90, Subpart Y and IC RSS-111
6.0 GHz Universal	5.690 - 6.060 GHz	Universal
5.9 GHz Universal	5.730 - 5.960 GHz	Universal
5.4 GHz Universal	5.465 - 5.730 GHz	Universal
5.3 GHz Universal	5.140 - 5.345 GHz	Universal
5.0 GHz Universal	4.990 - 5.160 GHz	Universal
4.9 GHz Universal	4.890 - 5.010 GHz	Universal
*Default Band		
<b>MECHANICAL</b>		
ODU Dimensions	37.1(w) x 37.1(h) x 11.0(d) cm	
ODU Weight	3.5 kg / 7 lbs	
<b>POWER</b>		
Power Feeding	Power provided over ODU-IDU cable using PoE	
Power Consumption	<20W	
<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	

Integrated Antenna	
Gain	18.5 dBi @ 4.9-5.0 GHz 19.5 dBi @ 5.0-5.15 GHz 22.5 dBi @ 5.15-6.0 GHz 21.5 dBi @ 6.0-6.06 GHz
VSWR	1.5 : 1 (typ) 1.7 : 1 (max)
3 dB Beamwidth	9° (typ)
AZ & EL Beam Squint	± 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	-35 dB (max)
Port To Port Isolation	40 dB (min)
Lightning Protection	DC grounded



## Ordering Info

**Part Number:** RW-5520-0150

**Description:** RADWIN HSU 520 Series Subscriber Unit Radio with high gain integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz FCC/IC

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