

## RADWIN 5000 – HPMP

### RW-5520-0130 Subscriber Unit – Data Sheet

#### HSU 520 SERIES



#### Subscriber Units - RW-5520-0130

RADWIN RW-5520-0130 Subscriber Unit (HSU) provides high capacity access connectivity of up to 20Mbps net aggregate throughput. RW-5520-0130 works with HBS-5100 base station.

RW-5520-2130 supports 3.300 -3.800 GHz and complies with FCC and IC 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-5520-0130 - 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 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

Note (\*) –Subject to regulation in each country

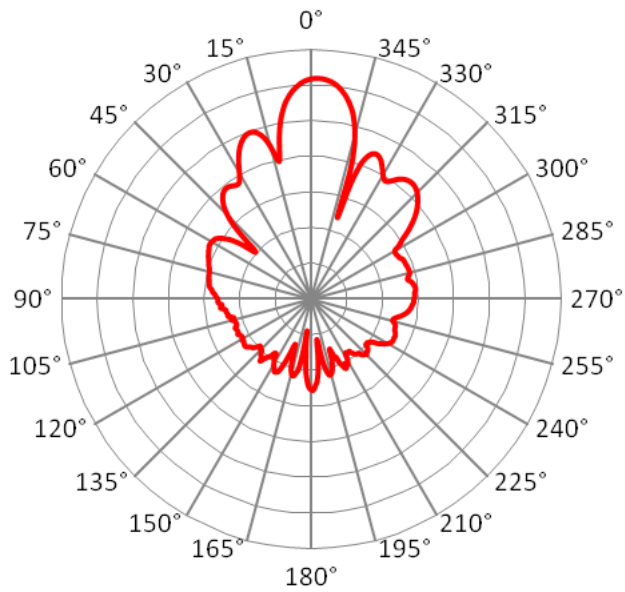
<b>SUPPORTED BANDS RW-5520-0130</b>		
3.6 GHz FCC/IC*	3.650 - 3.675 GHz	FCC 47CFR, Part 90 – Restricted Mode
3.5 GHz IC	3.475- 3.650 GHz	IC RSS 192, issue-3
3.x GHz Universal	3.290 – 3.810 GHz	
*Default Band		
<b>MECHANICAL</b>		
ODU Dimensions	37.1(w) x 37.1(h) x 11.0(d) cm	
ODU Weight	3.5 kg / 7 lbs	
<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**

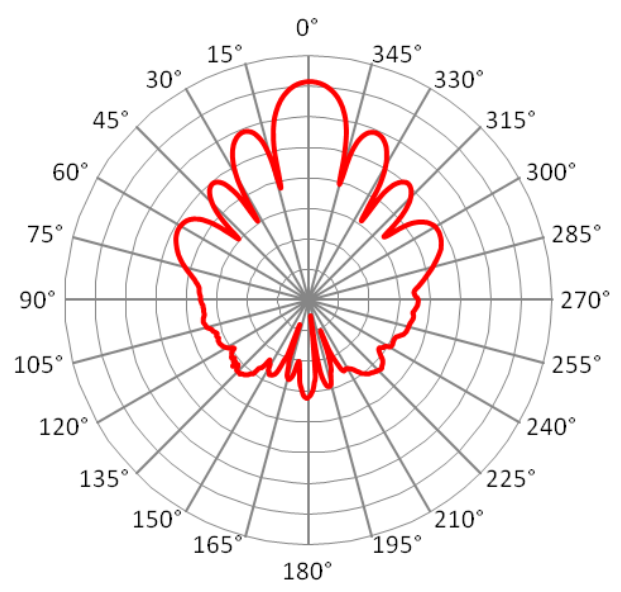
Gain	port V	21.0 dBi $\pm$ 1.0dB
	port H	20.0 dBi $\pm$ 0.5dB
VSWR	port V	1.5 :1 (typ)
	port H	1.5 :1 (typ)
Azimuth 3 dB Beamwidth		12° (typ)
Elevation 3 dB Beamwidth		15° (typ)
AZ & EL Beam Squint		$\pm$ 2° Port V & Port H $\pm$ 2° Port V & Port H
Polarization		Dual Linear (Vertical and Horizontal)
Sidelobes Level		ETSI EN 302 085 V1.1.2, TS1-TS3
Cross Polarization		ETSI EN 302 085 V1.1.2, TS1-TS3 25dB(max)
F/B Ratio		20 dB (max)
Port To Port Isolation		35 dB (min)
Lightning Protection		DC grounded

**Antenna Pattern**

Elevation @ 3.5GHz



Azimuth @ 3.5GHz

**Ordering Info****Part Number:** RW-5520-0130**Description:** RADWIN HSU 520 Series Subscriber Unit Radio with high gain integrated antenna, supporting multi frequency bands at 3.x GHz, factory default 3.6 GHz FCC/IC**Corporate Headquarters,** T. +972.3.766.2900, E. sales@radwin.com, www.radwin.com

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