

## RADWIN 5000 – HPMP

### RW-5520-8225 Subscriber Unit – Data Sheet



## HSU 520 SERIES

### Subscriber Units - RW-5520-8225

RADWIN RW-5520-8225 Subscriber Unit (HSU) provides high capacity access connectivity of up to 20Mbps net aggregate throughput.

RW-5520-8225 works with HBS-5100 base station.

RW-5520-8025 supports 2.500 to 2.700 GHz and complies with FCC regulations.

RADWIN RW-5520-8225 is connectorized for use with an external antenna.

### 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-5520-8225 - Product Specifications

<b>CONFIGURATION</b>	
Architecture	Outdoor Unit Connectorized for External 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

<b>SUPPORTED BANDS RW-5520-8225</b>		
Band	Occupied Frequency Range	Radio Compliance
2.5 GHz FCC BRS	2.496-2.700 GHz	FCC 47CFR, Part 27
<b>MECHANICAL</b>		
ODU Dimensions	19.5(w) x 27.0(h) x 8.0(d) cm	
ODU Weight	1.8 kg / 3.6 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	

**Part Number:** RW-5520-8225

**Description:** RADWIN HSU 520 Series Subscriber Unit Radio Connectorized for external antenna (2xN-type), supporting 2.5 GHz FCC BRS band