

RADWIN 5000 HPMP

RW-5525-2A50 Subscriber Unit - Data Sheet

HSU 525 SERIES



RW-5525-2A50

RADWIN RW-5525-2A50 Subscriber Unit (HSU), provides high capacity access connectivity of up to 25 Mbps net aggregate throughput. RW-5525-2A50 works with RADWIN 5000 HPMP base stations.

RW-5525-2A50 complies with ETSI regulations (factory default: 5.4 GHz ETSI).

RADWIN RW-5525-2A50 comes with an integrated antenna.

Product Highlights

- Up to 25 Mbps net aggregate throughput
- Guaranteed Service level Agreement (SLA) per HSU
- Exceptional short and constant latency
- Long range – up to 40 km/25 miles
- Advanced MIMO, OFDM and Diversity technologies
- Single radio supporting multiple bands (5.x GHz)
- Robust and reliable operation in tough conditions, extreme temperatures and non line-of-sight scenarios
- Ease of operation and maintenance

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Product Specifications

Configuration	
Architecture	Outdoor Unit with Integrated Antenna
IDU to ODU Interface	Outdoor CAT-5e cable; Maximum cable length: 100m
Radio	
Capacity	25 Mbps net aggregate throughput
Range	Up to 40 km / 25 miles
Channel Bandwidth	Configurable: 10,20 and 40 MHz (*)
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)
Bandwidth allocation	Symmetric and Asymmetric
DFS	Supported
Adaptive Modulation & Coding	Supported
Automatic Channel Selection	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
Ethernet Interface	10/100BaseT
Layer 2	Hub Mode
QoS	Packet classification to 4 queues according to 802.1p and Diffserv, Dynamic scheduling according to air interface changes
VLAN	Supported 802.1Q, 8021.P, QinQ

* Subject to regulation in each country

Supported Bands					
Band	Occupied Frequency Range				Radio Compliance
	Channel BW 5MHz	Channel BW 10MHz	Channel BW 20MHz	Channel BW 40MHz	
5.8 GHz ETSI	—	5.725-5.875 GHz	5.725-5.875 GHz	—	ETSI EN 302 502
5.4 GHz ETSI*	—	5.475-5.720 GHz	5.470-5.725 GHz	5.455-5.740 GHz	ETSI EN 301 893
5.3 GHz ETSI	—	5.150-5.350 GHz	5.150-5.350 GHz	—	ETSI EN 301 893

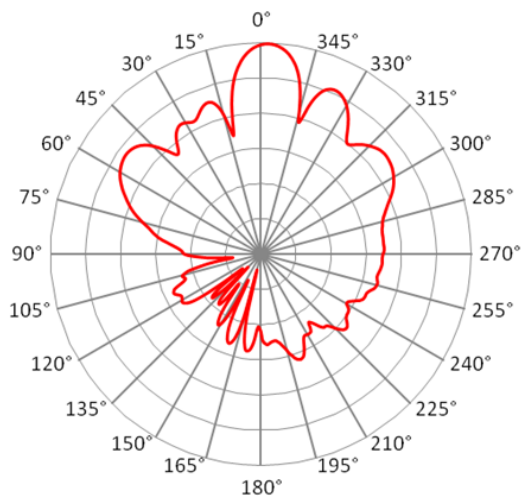
* Default Band

Mechanical	
Dimensions	24.1(w) x 19.7(h) x 7.7(d) cm
Weight	1.3 kg / 2.8 lbs
Power	
Power Feeding	Power provided over ODU-IDU cable using PoE device
Power Consumption	<12W
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	CFR47 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

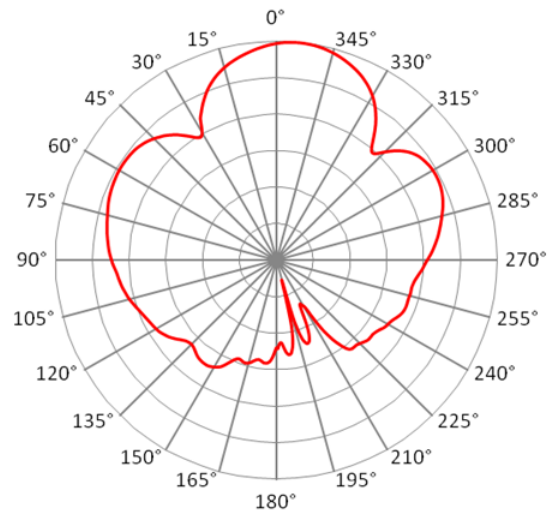
Integrated Antenna

Minimum Peak Gain	15.5 ± 1.0 dBi
VSWR	1.5 : 1 (typ) 1.7 : 1 (max)
3 dB Az. Beamwidth	15° (typ)
3 dB El. Beamwidth	30° (typ)
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	20 dB (max)
Port To Port Isolation	40 dB (min)
Lightning Protection	DC grounded
Antenna Pattern	

Azimuth @ 5.4GHz



Elevation @ 5.4GHz



Ordering Information

Part Number: RW-5525-2A50

Description: RADWIN HSU 525 Series Subscriber Unit Radio with integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz ETSI

Corporate Headquarters, T. +972.3.766.2900, E. sales@radwin.com, www.radwin.com

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