

RADWIN 5000 HPMP

RW-5505-0A50 Subscriber Unit - Data Sheet

HSU 505 SERIES



RW-5505-0A50

RADWIN RW-5505-0A50 Subscriber Unit (HSU), provides high capacity access connectivity of up to 5 Mbps net aggregate throughput. RW-5505-0A50 works with RADWIN 5000 HPMP base stations.

RW-5505-0A50 supports 5.1 to 5.9 GHz and complies with WPC (India), MII (China) and universal regulations (factory default: 5.8 GHz FCC/IC*).

RADWIN RW-5505-0A50 comes with an integrated antenna.

* Not FCC/IC certified

Product Highlights

- Up to 5 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	5 Mbps net aggregate throughput
Range	Up to 40 km / 25 miles
Channel Bandwidth	Configurable: 5,10,20 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

Supported Bands					
	Occupied Frequency Range				
Band	Channel BW 5MHz	Channel BW 10MHz	Channel BW 20MHz	Channel BW 40MHz	Radio Compliance
5.8 GHz FCC/IC*	5.7275-5.8475 GHz	5.725-5.850 GHz	5.725-5.850 GHz	5.725-5.850 GHz	Not FCC/IC certified
5.9 GHz Universal	5.7375-5.9525 GHz	5.735-5.955 GHz	5.730-5.960 GHz	5.720-5.970 GHz	Universal
5.8 GHz MII China	5.7375-5.8375 GHz	5.735-5.840 GHz	5.730-5.845 GHz	5.730-5.845 GHz	MI I for 5.8 GHz
5.8 GHz WPC India	5.8325-5.8675 GHz	5.830-5.870 GHz	5.825-5.875 GHz	5.825-5.875 GHz	WPC GSR-38
5.4 GHz Universal	5.4725-5.7225 GHz	5.470-5.725 GHz	5.465-5.730 GHz	5.455-5.740 GHz	Universal
5.3 GHz Universal	5.1475-5.3375 GHz	5.145-5.340 GHz	5.140-5.345 GHz	5.130-5.355 GHz	Universal

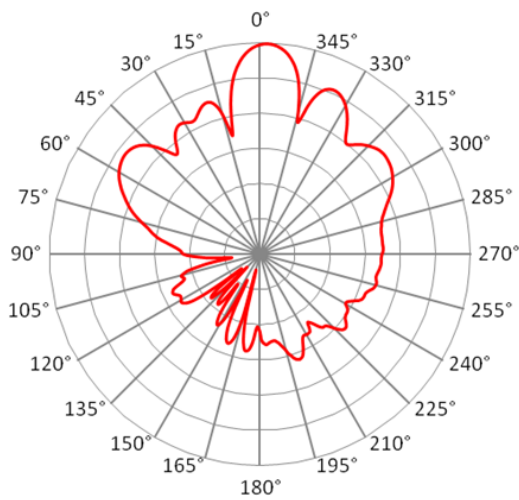
*** Factory Default**

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	<10W
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

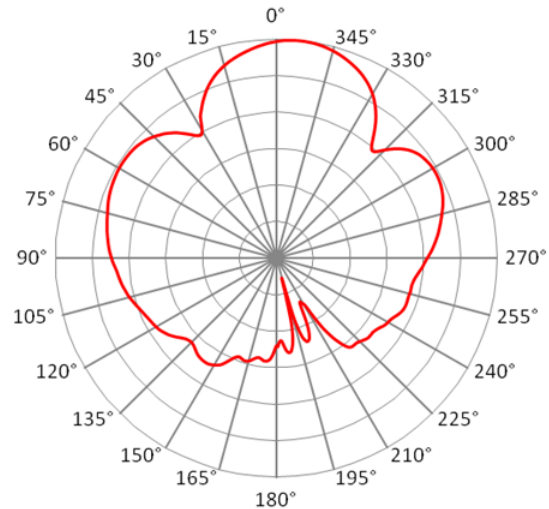
Integrated Antenna

Peak Gain	15.5 ± 1.0 dBi @ 5.47-5.875 GHz
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 @ 5.8GHz



Elevation @ 5.8GHz



Ordering Information

Part Number: RW-5505-0A50

Description: RADWIN HSU 505 Series Subscriber Unit Radio with integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz FCC/IC*

* Not FCC/IC Certified

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