

## RADWIN 5000 HPMP

### RW-5505-9C54 Subscriber Unit - Data Sheet



#### HSU 505 SERIES

### RW-5505-9C54

RADWIN RW-5505-9C54 Subscriber Unit (HSU), provides high capacity access connectivity of up to 5Mbps net aggregate throughput. RW-5505-9C54 works with RADWIN 5000 base stations.

RW-5505-9C54 supports 5.1 to 5.9 GHz and complies with WPC (India), MII (China) and universal regulations (factory default: 5.4 GHz Universal).

RADWIN RW-5505-9C54 is connectorized for use with external antenna.

### 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

## Product Specifications

Configuration	
Architecture	Outdoor Unit Connectorized for External 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
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 for regulation at 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 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	MII 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	17.1(w) x 19.6(h) x 7.2(d) cm
Weight	1.1 kg / 2.4 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

## Ordering Information

**Part Number:** RW-5505-9C54

**Description:** RADWIN HSU 505 Series Subscriber Unit Radio Connectorized for external antenna (2xN-type), supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz Universal

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