

RADWIN 5000 HPMP

RW-5510-0C50 Subscriber Unit - Data Sheet



HSU 510 SERIES

RW-5510-0C50

RADWIN RW-5510-0C50 Subscriber Unit (HSU), provides high capacity access connectivity of up to 10Mbps net aggregate throughput. RW-5510-0C50 works with RADWIN 5000 base stations.

RW-5510-0C50 supports 4.9 to 5.9 GHz and complies with FCC, IC (Canada), WPC (India), MII (China) and universal regulations (factory default: 5.8 GHz FCC/IC).

RADWIN RW-5510-0C50 is Connectorized for use with external antenna.

Product Highlights

- Up to 10 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 Connectorized for External Antenna
IDU to ODU Interface	Outdoor CAT-5e cable; Maximum cable length: 100m
Radio	
Capacity	10 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	FCC 47CFR, Part 15, Sub-
5.9 GHz Universal	5.7275-5.9525 GHz	5.725-5.955 GHz	5.720-5.960 GHz	5.710-5.970 GHz	Universal
5.8 GHz MII China	5.7375-5.8375 GHz	5.735-5.840 GHz	5.730-5.845 GHz	5.720-5.855 GHz	MI for 5.8 GHz
5.8 GHz WPC India	5.8275-5.8725 GHz	5.825-5.875 GHz	5.825-5.875 GHz	5.825-5.875 GHz	WPC GSR-38
5.4 GHz FCC/IC	5.4775-5.7175 GHz	5.480-5.715 GHz	5.480-5.715 GHz	5.480-5.715 GHz	FCC 47CFR, Part 15, Sub-
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 FCC/IC	5.2525-5.3475 GHz	5.255-5.345 GHz	5.255-5.345 GHz	5.255-5.345 GHz	FCC 47CFR, Part 15, Sub-
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
4.9 GHz FCC/IC	4.9425-4.9875 GHz	4.940-4.990 GHz	4.940-4.990 GHz	—	FCC 47CFR, Part 90, Sub-
4.9 GHz Universal	4.8975-4.9925 GHz	4.895-4.995 GHz	4.890-5.000 GHz	4.880-5.000 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	<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

Ordering Information

Part Number: RW-5510-0C50

Description: RADWIN HSU 510 Series Subscriber Unit Radio Connectorized for external antenna (2xN-type), supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz FCC/IC

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