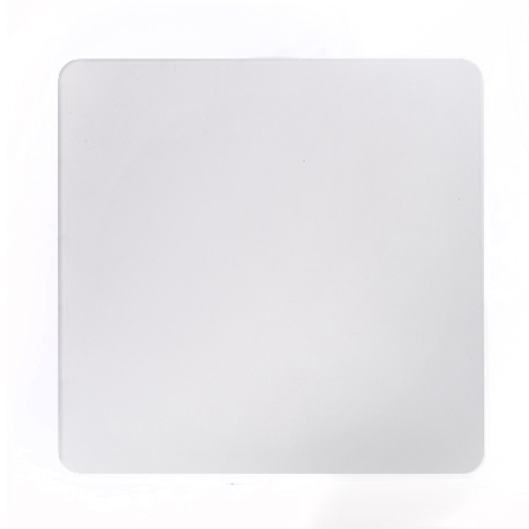


## RADWIN HPMP HSU 510 Series

### Subscriber Unit - Data Sheet



RW-5510-9H54

#### Product Description

RW-5510-9H54 Subscriber Unit (HSU) provides high capacity access connectivity of up to 10 Mbps net aggregate throughput. RW-5510-9H54 supports 4.9 to 5.9 GHz and complies with FCC/IC, WPC, Universal & MII regulations. The radio comes with an integrated antenna.

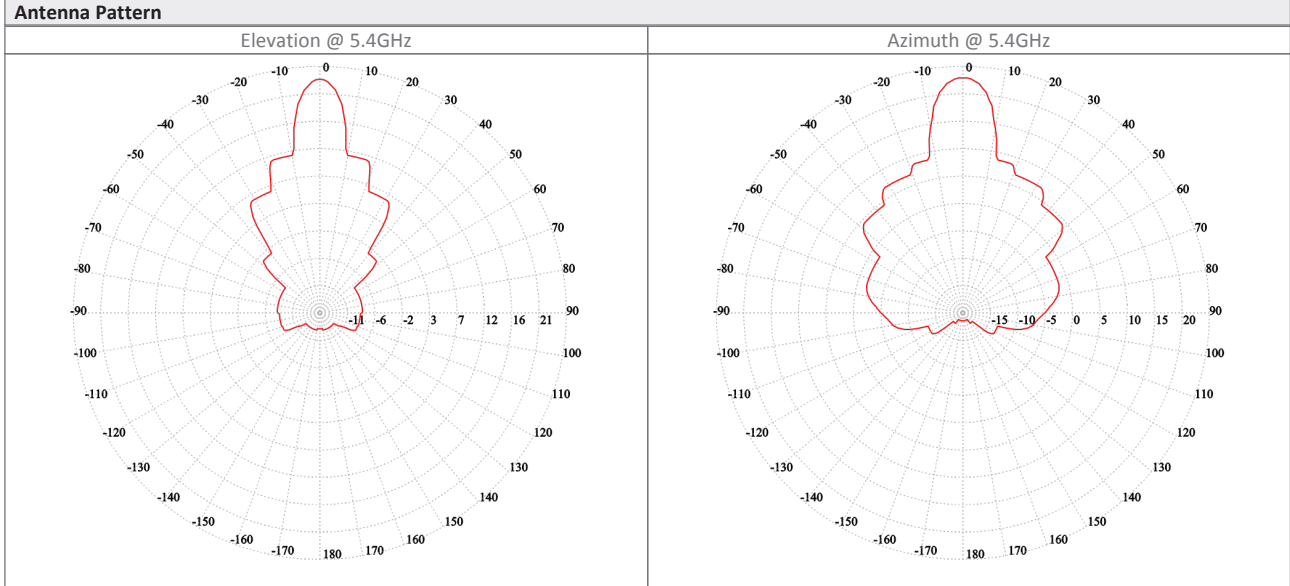
#### Product Highlights

- Up to 10 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Guaranteed Service level Agreement (SLA) per HSU
- Exceptional short and constant latency
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable operation in harsh conditions, extreme temperatures and non-line-of-sight scenarios
- Ease of operation and maintenance

## Product Specifications:

<b>Configuration</b>					
Architecture	Outdoor Unit with an integrated antenna				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT				
<b>Radio</b>					
Max Capacity	10 Mbps net aggregate throughput; Upgradable to 100 Mbps with license key				
Range	Up to 40 km / 25 miles				
Channel Bandwidth	Configurable: 5, 10, 20, 40 MHz (for the default band)				
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)				
Adaptive Modulation & Coding	Supported				
DFS	Not Supported				
Diversity	Supported				
Max Tx Power	21 dBm				
Duplex Technology	TDD				
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6				
Encryption	AES 128; FIPS 197				
Support Indoor units	RADWIN PoE devices (RW-9921-101X)				
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric				
Layer 2	HUB Mode				
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv				
VLAN Support	802.1Q, QinQ, 4094 VLANs				
ODU Management	IPv4/IPv6 dual-stack; SNMP v1 and v3; HTTP using web browser				
<b>Supported Bands</b>					
Band	CBW 5MHz [GHz]	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	Radio Compliance
5.8 GHz FCC/IC	5.7275-5.8475	5.730-5.845	5.730-5.845	5.730-5.845	FCC 47CFR Part 15.247; IC RSS-210
5.8 GHz WPC	5.8275-5.8725	5.825-5.875	5.825-5.875	5.825-5.875	WPC (India) G.S.R 38(E) dated 19 January, 2007 Notification
5.4 GHz Universal (default)	5.4725-5.7225	5.470-5.725	5.465-5.730	5.455-5.740	Universal
5.1 GHz Universal	5.1475-5.3375	5.145-5.340	5.140-5.345	5.130-5.355	Universal
5.9 GHz Universal	5.7275-5.9525	5.725-5.955	5.720-5.960	5.710-5.970	Universal
5.8 GHz MII	5.7375-5.8375	5.735-5.840	5.730-5.845	5.720-5.855	CMIIT RTA
4.9 GHz Universal	4.8975-4.9925	4.900-4.995	4.900-4.995	4.900-4.995	Universal
5.730-5.845 GHz Universal	5.7275-5.8475	5.725-5.850	5.725-5.850	5.725-5.850	FCC 47CFR Part 15.247; IC RSS-210
<b>Mechanical</b>					
ODU Dimensions	30(w) x 30(h) x 8.5(d) cm				
ODU Weight	3.1 kg / 6.83 lbs				
<b>Power</b>					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<12W				
<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				

Integrated Antenna	
Gain	23 dBi
VSWR	1.5 :1 (typ)
3 dB Azimuth Beamwidth	10 Deg. (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	ESTI EN 302 326-3 V1.1.2 DN3
Cross Polarization	ESTI EN 302 326-3 V1.1.2 DN3
F/B Ratio	-30 dB
Port To Port Isolation	30 dB (max)
Lightning Protection	DC Grounded



**Ordering Info**

Part Number: RW-5510-9H54

Description: RADWIN HSU 510 ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz Universal.