

RADWIN HPMP HSU 550 Series

Subscriber Unit - Data Sheet



RW-5550-0H50

Product Description

RW-5550-0H50 Mobile Unit (HMU) provides up to 25 Mbps net aggregate throughput in diversity mode and up to 50 Mbps in MiMO mode for mobile connectivity. The RW-5550-0H50 works with FiberinMotion base stations only.

RW-5550-0H50 supports 4.9 to 6 GHz and complies with FCC/IC, Universal, IC, WPC & MII regulations.

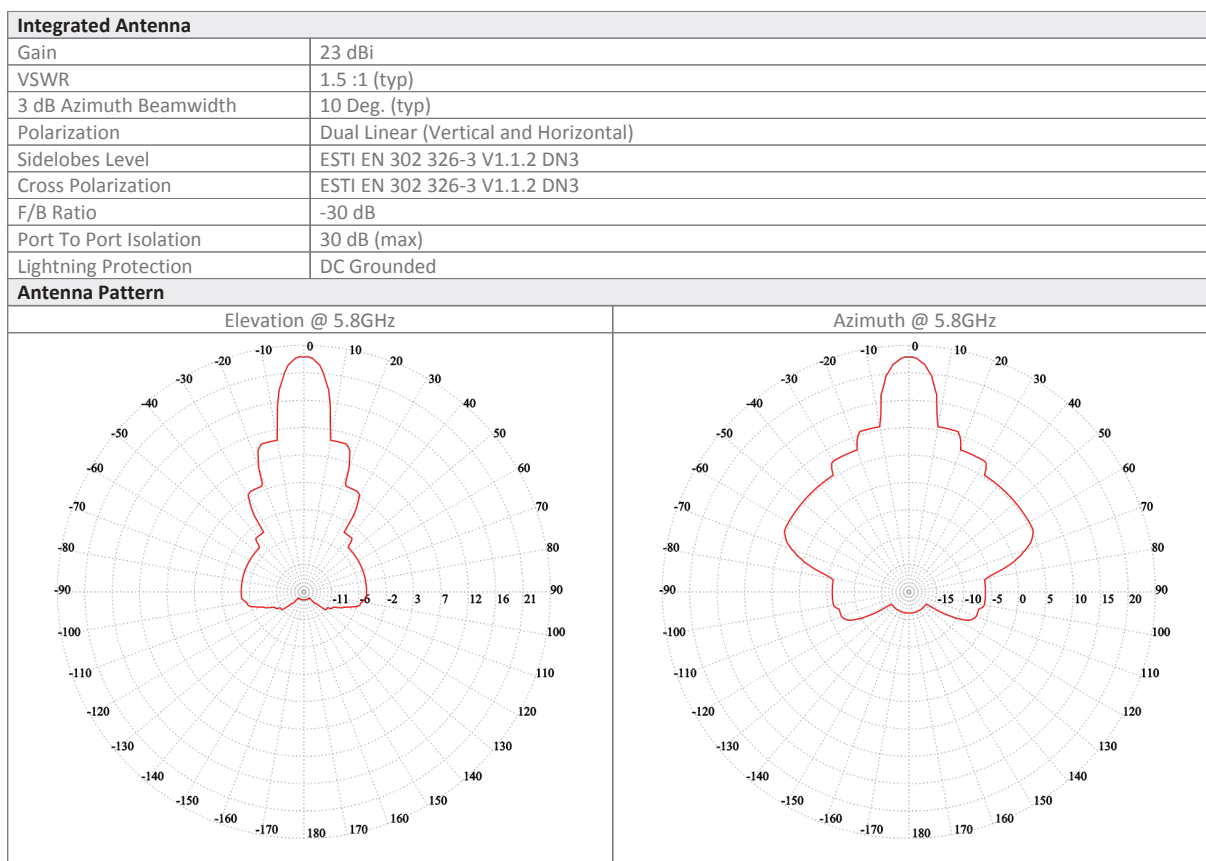
The radio comes with an integrated antenna.

Product Highlights

- Up to 50 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:

Configuration					
Architecture	Outdoor Unit with an integrated antenna				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT				
Radio					
Max Capacity	50 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	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)				
Adaptive Modulation & Coding	Supported				
DFS	Not Supported (for the default band)				
Diversity	Supported				
Max Tx Power	25 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				
Supported Bands					
Band	Channel BW 5MHz [GHz]	Channel BW 10MHz [GHz]	Channel BW 20MHz [GHz]	Channel BW 40MHz [GHz]	Radio Compliance
4.9 GHz FCC/IC	4.9425-4.9875	4.940-4.990	4.940-4.990	-	FCC 47CFR Part 90 Subpart Y; IC RSS-111
4.9 GHz Universal	4.8975-4.9925	4.895-4.995	4.890-5.000	4.880-5.000	Universal
5.1 GHz Universal	5.1475-5.3375	5.145-5.340	5.140-5.345	5.130-5.355	Universal
5.2 GHz FCC/IC	5.2525-5.3475	5.255-5.345	5.255-5.345	5.255-5.345	FCC 47CFR Part 15.407; IC RSS-210
5.4 GHz FCC/IC	5.4775-5.7175	5.480-5.715	5.480-5.715	5.480-5.715	FCC 47CFR Part 15.407; IC RSS-210
5.4 GHz IC	5.4775-5.7175	5.480-5.715	5.480-5.715	5.480-5.715	IC RSS-210
5.4 GHz Universal	5.4725-5.7225	5.470-5.725	5.465-5.730	5.455-5.740	Universal
5.8 GHz FCC/IC (default)	5.7275-5.8475	5.725-5.850	5.725-5.850	5.725-5.850	FCC 47CFR Part 15.247; IC RSS-210
5.8 GHz WPC	5.8275-5.8725	5.825-5.875	5.825-5.875	5.815-5.885	WPC (India) G.S.R 38(E) dated 19 January, 2007 Notification
5.9 GHz Universal	5.7275-5.9525	5.725-5.955	5.720-5.960	5.710-5.970	Universal
6.0 GHz Universal	5.6975-6.0525	5.695-6.055	5.690-6.060	5.680-6.070	Universal
5.8 GHz MII	5.7375-5.8375	5.735-5.840	5.730-5.845	5.720-5.855	CMIIT RTA
5.0 GHz Universal	4.9975-5.1525	4.995-5.155	4.990-5.160	4.980-5.170	Universal
5.1 GHz FCC/IC	5.1575-5.2475	5.160-5.245	5.160-5.245	5.155-5.250	FCC 47CFR Part 15.407; IC RSS-210
Mechanical					
ODU Dimensions	30(w) x 30(h) x 8.5(d) cm				
ODU Weight	3.1 kg / 6.83 lbs				
Power					
Power Feeding	Power provided over ODU-IDU cable				
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	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				



Ordering Info

Part Number: RW-5550-0H50

Description: RADWIN HSU 550 ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz FCC/IC.