

RADWIN HPMP 5A0 Series

Subscriber Unit - Data Sheet



RW-55A0-0250

Product Description

RW-55A0-0250 Subscriber Unit (HSU) provides high capacity access connectivity of up to 100 Mbps net aggregate throughput. RW-55A0-0250 supports 4.9 to 5.8 GHz and complies with FCC/IC, FCC & IC regulations. The radio is connectorized for external antenna (2 x N-type).

Product Highlights

- Up to 100 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 connectorized for external antenna (2 x N-type)				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT				
Radio					
Max Capacity	100 Mbps net aggregate throughput				
Range	Up to 40 km / 25 miles				
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band)				
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Adaptive Modulation & Coding	Supported				
DFS	Supported (FCC/IC, IC)				
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	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	Radio Compliance
5.8 GHz FCC/IC (default)	5.730-5.845	5.730-5.845	5.730-5.845	5.730-5.845	FCC 47CFR Part 15.247; IC RSS-210
5.160-5.245 GHz FCC	5.160-5.245	5.160-5.245	5.155-5.250	5.155-5.250	FCC 47CFR Part 15.407
4.9 GHz FCC/IC	4.940-4.990	4.940-4.990	-	-	FCC 47CFR Part 90 Subpart Y; IC RSS-111
5.4 GHz FCC/IC	5.480-5.715	5.480-5.715	5.480-5.715	5.485-5.715	FCC 47CFR Part 15.407; IC RSS-210
5.2 GHz FCC/IC	5.255-5.345	5.255-5.345	5.255-5.345	5.250-5.350	FCC 47CFR Part 15.407; IC RSS-210
5.4 GHz IC	5.480-5.715	5.480-5.715	5.480-5.715	5.485-5.605	IC RSS-210
Mechanical					
ODU Dimensions	28(w) x 19.5(h) x 8(d) cm				
ODU Weight	2.4 kg / 5.29 lbs				
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<20W				
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	FEC k = 1/2, 2/3, 3/4, 5/6				

Ordering Info

Part Number: RW-55A0-0250

Description: RADWIN 5A0 ODU, connectorized for external antenna (2 x N-type), supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz FCC/IC.