RADWIN Alpha Model

Point-to-Point Radio - Data Sheet (RW2000/ODU/Alpha/F54/ETSI/INT/50M)



RW-2250-6H50

Product Description

RW-2250-6H50 is a carrier-class radio that belongs to the RADWIN 2000 Alpha Series and supports 5.4 to 5.8 GHz frequency range.

The Radio complies with ETSI regulation with a factory default of 5.4 GHz ETSI.

RW-2250-6H50 delivers up to 50 Mbps throughput and up to 250Mbps upgradeable by license key.

The unit includes an integrated antenna.

Product Highlights

- Up to 50 Mbps net aggregated throughput (upgradeable to 250Mbps by license key)
- Telco-grade, extremely robust in harsh conditions
- Supports intra-site synchronization to maximize capacity
- Configurable asymmetric throughput
- Advanced OFDM & MIMO technologies for operation in nLOS/NLOS and dense radio environments
- Integrated 22dBi antenna
- IP-67
- Can operate as SU PRO
- Support AES 256 encryption over the air (from release 5.1.30)



Product Specifications:

Outdoor Unit v	ith an integrated	l antenna			
	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT				
1	•				
50 Mbps net ag	50 Mbps net aggregate throughput. Upgradable to 250 Mbps with license key				
Configurable: 10, 20, 40, 80 MHz (for the default band); Dynamic Channel BW selection (20/40/80 MHz)					
11					
	nin: max EIRP 30 d	dBm (for the defai	ult band)		
-	,				
1	1-2-				
* * *					
Supported					
CBW 20MHz	CBW 40MHz	CB/M SUMIT	Radio Compliance		
1 -			Radio Compilance		
5.470-5.710	5.490-5.690	5.490-5.650	ETSI EN 301 893		
5.735-5.865	-	-	ETSI EN 302 502		
32.5(w) x 32.5(h) x 6.4(d) cm					
, 0,					
Power provided over ODU-IDU cable					
<13W					
-35°C to 60°C /	-31°F to 140°F				
-35°C to 60°C /		protected against	dust and against immersion in water up to 1m)		
		protected against	dust and against immersion in water up to 1m)		
100% condensi	ng, IP67 (totally p				
100% condensi	ng, IP67 (totally p	CSA C22.2 60950-	dust and against immersion in water up to 1m) 1, CAN/CSA C22.2 60950-22		
100% condensi	ng, IP67 (totally p	CSA C22.2 60950-			
100% condensi UL 60950-1, UL EN/IEC 60950-:	ng, IP67 (totally p 60950-22, CAN/0 L, EN/IEC 60950-2	CSA C22.2 60950-			
100% condensi UL 60950-1, UL EN/IEC 60950-1	ng, IP67 (totally p	CSA C22.2 60950-			
	Outdoor CAT-5 50 Mbps net ag Up to 40 km / 2 Configurable: 1 MIMO-OFDM (i Supported Supported upo Supported (ETS Supported 26 dBm per cha TDD FEC k = 1/2, 2/3 AES 128 RADWIN POE di Configurable: S Packet classifica 802.1Q, QinQ, 4 Supported	Outdoor CAT-5e; Maximum cabi 50 Mbps net aggregate through Up to 40 km / 25 miles * Configurable: 10, 20, 40, 80 MH: MIMO-OFDM (BPSK/QPSK/16Q/Supported Supported upon power up Supported (ETSI) Supported 26 dBm per chain; max EIRP 30 of TDD FEC k = 1/2, 2/3, 3/4, 5/6 AES 128 RADWIN POE devices (9921-400) Configurable: Symmetric or Asyri 802.1Q, QinQ, 4094 VLANs Supported	50 Mbps net aggregate throughput. Upgradable to Up to 40 km / 25 miles * Configurable: 10, 20, 40, 80 MHz (for the default to MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256Q Supported Supported upon power up Supported (ETSI) Supported Supported 26 dBm per chain; max EIRP 30 dBm (for the default to MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256Q Supported Packet classification to 4 priority queues according 802.1Q, QinQ, 4094 VLANs Supported		



Integrated Antenna				
Gain	21 dBi			
VSWR	2.0:1			
3 dB Azimuth Beamwidth	10 Deg. (typ)			
Polarization	Dual Linear (Vertical and Horizontal)			
Sidelobes Level	-12 dB(typ)			
Cross Polarization	-25dB (typ)			
F/B Ratio	-25 dB			
Port To Port Isolation	30 dB (typ)			
Lightning Protection	DC Grounded			
Antenna Pattern				
Elevation @ 5.4GHz		Azimuth @ 5.4GHz		
-20 -30 -30 -30 -30 -30 -30 -30 -30 -30 -3		-100 -100 -100 -100 -100 -100 -100 -100		

Ordering Info

Part Number: RW-2250-6H50

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

* May be limited by regulation in the specific band being used

Datasheet information can be changed by manufacturer without prior notice

