RADWIN 2000 Alpha Series

Point-to-Point Radio - Data Sheet (RW2000/ODU/Alpha/F58/FCC/INT/250M)



RW-2050-6HB0

Product Description

RW-2050-6HB0 is a carrier-class radio that belongs to the RADWIN 2000 Alpha Series and supports 5.1 to 5.8 GHz frequency range.

The Radio complies with FCC/IC & FCC bands with a factory default of 5.8 GHz FCC/IC.

RW-2050-6HB0 delivers up to 250 Mbps throughput.

The unit includes an integrated antenna.

Product Highlights

- Up to 250 Mbps net aggregated throughput
- 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



Product Specifications:

Configuration							
Architecture	Outdoor Unit v	vith an integrated	antenna				
PoE to ODU Interface				or 10/100BaseT an	nd 75m for 1000BaseT		
Radio	1						
Max Capacity	250 Mbps net a	250 Mbps net aggregate throughput					
Range	Up to 40 km / 2						
Channel Bandwidth			for the default h	nand): Dynamic Cl	nannel BW selection (20/40/80 MHz)		
Modulation			AM/64QAM/256Q		14111161 200 3616661611 (20) 10/00 10112/		
Adaptive Modulation & Coding	Supported	DI 314 QI 314 10Q	111,010,111,2300	, uvij			
Automatic Channel Selection	+ ''	n nower iin					
DFS	Supported (FC)	Supported (ECC)					
Diversity	Supported (FCC)						
Spectrum Viewer	Supported						
Max Tx Power	21 dBm						
Duplex Technology	TDD						
Error Correction	FEC k = 1/2, 2/3	3 3/4 5/6					
Encryption	AES 128	5, 5, 7, 5, 0					
Support Indoor units		evices (9921-102)	Υ)				
Uplink / Downlink Allocation		· · · · · · · · · · · · · · · · · · ·	,				
QoS		Configurable: Symmetric or Asymmetric Packet classification to 4 priority queues according to 802.1P or Diffserv					
VLAN Support			queues according	g to 802.1F of Dif	13C1 V		
TDD Intra Site Synchronization	Supported	802.1Q, QinQ, 4094 VLANs					
TDD Intra Site Synchronization	Supported Supported through common GPS receiver per site						
ODU Management					owsor		
Option 82	IPv4/IPv6 dual-stack; SNMP v1, SNMPv3; HTTP/HTTPS using web browser						
RADIUS Authorization	Supported						
RADIUS User authentication	Supported Supported						
	Supported						
Syslog Supported Bonds	Supported						
Supported Bands Band	CBW 10MHz	CBW 20MHz	CBW 40MHz	CBW 80MHz	Radio Camplianes		
Dallu	[GHz]	[GHz]	[GHz]	[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 15.407; ISED RSS-247		
5.1 GHz FCC	5.170-5.250	5.170-5.250	5.170-5.250	5.170-5.250	FCC 47CFR Part 15.407		
5.2 GHz FCC	-	5.255-5.340	5.255-5.340	5.250-5.340	FCC 47CFR Part 15.407		
5.4 GHz FCC	-	5.480-5.715	5.480-5.715	5.485-5.715	FCC 47CFR Part 15.407		
5.1 GHz FCC	5.170-5.845	5.170-5.845	5.170-5.845	5.170-5.845	FCC 47CFR Part 15.407		
Mechanical	3.270 3.0.3	0.270 0.0.0	0.2700.0	0.270 0.0.0			
ODU Dimensions	32.5(w) x 32.5(h) x 6.4(d) cm						
ODU Weight	2 kg / 4.41 lbs						
Power	1 2 1.87 11.12.120						
Power Feeding	Power provided over ODU-IDU cable						
Power Consumption	<13W						
Environmental	1244						
Operating Temperatures	-35°C to 60°C / -31°F to 140°F						
Humidity	100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m)						
	1 20070 CONGCISI	₀ , 0, (totally p		and and against i	e.s.on in water up to 1mj		
Safety	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22						
Safety	III 60050-1 III	60950-22 CANI/	CCV C33 3 EUDEU	1 (\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
US/CAN (cTUVus)	-			1, CAN/CSA C22.2	00330-22		
US/CAN (cTUVus) CE/IEC	-	. 60950-22, CAN/0 1, EN/IEC 60950-2		1, CAN/CSA C22.2	00330-22		
US/CAN (cTUVus) CE/IEC EMC	EN/IEC 60950-2	1, EN/IEC 60950-2	22	1, CAN/CSA C22.2	00330-22		
US/CAN (cTUVus) CE/IEC EMC FCC	EN/IEC 60950-:	1, EN/IEC 60950-2	В	1, CAN/CSA C22.2	00330-22		
US/CAN (cTUVus) CE/IEC EMC	EN/IEC 60950-: 47 CFR, Part15, EN 301 489-1,	1, EN/IEC 60950-2	В	1, CAN/CSA C22.2	00330-22		



Integrated Antenna					
Gain	22 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 @ 5.8	GHz	Azimuth @ 5.8GHz			
-100 -110 -120 -130 -140 -150 -160 -170 180 17	30 40 50 60 70 80 80 100 110 120 130 140	-20 -10 0 10 20 30 40 -50 -50 -50 -60 -70 -70 -80 -100 -110 -120 -130 -140 -150 -160 -170 180 170 160			

Ordering Info

Part Number: RW-2050-6HB0

Description: RADWIN 2000 Alpha ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz FCC/IC.

Datasheet information can be changed by manufacturer without prior notice

