RADWIN 2000 Alpha Series

Point-to-Point Radio - Data Sheet (RW2000/ODU/Alpha/F58/FCC/INT/500M)



RW-2050-6HC5

Product Description

RW-2050-6HC5 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-2050-6HC5 delivers up to 500 Mbps throughput.

The unit includes an integrated antenna.

Product Highlights

- Up to 500 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	500 Mbps net a	500 Mbps net aggregate throughput						
Range	Up to 40 km / 25 miles							
Channel Bandwidth			for the default h	nand). Dynamic Ch	nannel BW selection (20/40/80 MHz)			
Modulation			AM/64QAM/256Q		14111111 200 3010001011 (20) 10/00 10112/			
Adaptive Modulation & Coding	Supported	2. 0.17 4. 0.17 204	,	<i>y)</i>				
Automatic Channel Selection	+ ''	Supported upon power up						
DFS	Supported (FC)							
Diversity	Supported (FCC)							
Spectrum Viewer	Supported							
Max Tx Power	21 dBm							
Duplex Technology	TDD							
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6							
Encryption	AES 128	5, 5, 7, 5, 0						
Support Indoor units		evices (9921-102)	Υ)					
Uplink / Downlink Allocation		symmetric or Asyr	,					
QoS		, , , , , , , , , , , , , , , , , , , 		g to 802.1P or Diff	fcory			
VLAN Support	802.1Q, QinQ,		queues according	g to 802.1F 01 DIII	13C1 V			
TDD Intra Site Synchronization	Supported	4034 VLAIVS						
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							
	+ ''							
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	0.170 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							
	100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m)							
	100% condensing, 1407 (totally protected against dust and against illimersion in water up to 1m)							
Humidity 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/	CSV C33 3 EUDEU	1 CAN/CSA C22 2	60950-22			
Safety US/CAN (cTUVus)	-			1, CAN/CSA C22.2	60950-22			
Safety US/CAN (cTUVus) CE/IEC	-	. 60950-22, CAN/0 1, EN/IEC 60950-2		1, CAN/CSA C22.2	60950-22			
Safety US/CAN (cTUVus) CE/IEC EMC	EN/IEC 60950-2	1, EN/IEC 60950-2	22	1, CAN/CSA C22.2	60950-22			
Safety US/CAN (cTUVus) CE/IEC EMC FCC	EN/IEC 60950-:	1, EN/IEC 60950-2	В	1, CAN/CSA C22.2	60950-22			
Safety 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	60950-22			



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			
-20 -10 0 10 20 30 40 -50 -50 -60 -70 -70 -80 -150 -160 -170 180 170 160 150 -160 -170 180 170 160		-100 -110 -120 -130 -140 -150 -160 -170 -180 -170 -180 -170 -180 -170 -180 -170 -160 -170 -160 -170 -160			

Ordering Info

Part Number: RW-2050-6HC5

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

