RADWIN Alpha Model

Point-to-Point Radio - Data Sheet (RW2000/ODU/Alpha/F35/UNI/INT/500M)



RW-2935-6HC5

Product Description

RW-2935-6HC5 is a carrier-class radio that belongs to the RADWIN 2000 Alpha Series and supports 3.5 GHz frequency band.

The Radio complies with Universal bands with a factory default of 3.5 GHz Universal.

RW-2935-6HC5 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 19dBi antenna
- IP-67
- Can operate as SU PRO



Product Specifications:

Configuration							
Architecture	Outdoor Unit v	vith an integrated	l antenna				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT						
Radio							
Max Capacity	500 Mbps net aggregate throughput (up to 250 Mbps per direction)						
Range	Up to 40 km / 25 miles						
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band)						
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)						
Adaptive Modulation & Coding	Supported						
Automatic Channel Selection	Supported upon power up						
DFS	Not Supported						
Diversity	Supported						
Spectrum Viewer	Supported						
Max Tx Power	24 dBm						
Duplex Technology	TDD						
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6						
Encryption	AES 128						
Support Indoor units	RADWIN PoE devices (9921-102X)						
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric						
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv						
VLAN Support	802.1Q, QinQ, 4094 VLANs						
TDD Intra Site Synchronization	Supported						
TDD Inter Site Synchronization	Supported through common GPS receiver per site						
ODU Management	IPv4/IPv6 dual-stack; SNMPv1, SNMPv3; HTTP/HTTPS using web browser						
Option 82	Supported						
RADIUS Authorization	Supported						
RADIUS User authentication	Supported						
Syslog	Supported						
Supported Bands	Jupporteu						
Band	CBW 10MHz	CBW 20MHz	CBW 40MHz	CBW 80MHz	Radio Compliance		
Bullu	[GHz]	[GHz]	[GHz]	[GHz]	Radio Compilance		
3.5 GHz Universal	3.395-3.805	3.390-3.810	3.380-3.820	3.360-3.840	Universal		
Mechanical	1	10.000	1000000000	1			
ODU Dimensions	32.5(w) x 32.5(h) x 6.4(d) cm						
ODU Weight	2 kg / 4.41 lbs						
Power	7 07						
Power Feeding	Power provided over ODU-IDU cable						
Power Consumption	<13W						
Environmental							
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)						
Safety	20070 0011401131			and against i			
US/CAN (cTUVus)	UL 62368-1 2nd edition, IEC/EN/UL/CSA 60950-22:2017						
CE/IEC	IEC/EN 62368-1:14+A11:17						
EMC							
FCC	47 CFR, Part15, Subpart B, Class B						
ETSI	EN 301 489-1, EN 301 489-4, EN 301 489-17						
CAN/CSA-CEI/IEC	ICES-003						
AS/NZS	CISPR 32:2015	Class B					
M3/ 1473	Total # 0212020 01000 0						



Integrated Antenna						
Gain	18 dBi					
VSWR	2.0:1					
3 dB Azimuth Beamwidth	15 Deg. (typ)					
Polarization	Dual Linear (Vertical and Horizontal)					
Sidelobes Level	-13 dB(typ)					
Cross Polarization	-23dB (typ)					
F/B Ratio	-20 dB					
Port To Port Isolation	30 dB (typ)					
Lightning Protection	DC Grounded					
Antenna Pattern						
Elevation @ 3.5	GHz	Azimuth @ 3.5GHz				
-50 -60 -70 -100 -110 -120 -130 -140 -150 -160 -170 -180 -170	110 110 120 130 140	-50 -60 -70 -80 -100 -110 -120 -130 -140 -150 -160 -170 180	30 40 50 60 70 80 80 110 110 120 130 140			

Ordering Info

Part Number: RW-2935-6HC5

Description: RADWIN Alpha ODU, with an integrated antenna, supporting 3.5 GHz Universal frequency band.

Datasheet information can be changed by manufacturer without prior notice

