

RADWIN Alpha Model

Point-to-Point Radio - Data Sheet (RW2000/ODU/Alpha/F64/UNI/INT/250M/25)



RW-2964-6HB0

Product Description

RW-2964-6HB0 is a carrier-class radio that belongs to the RADWIN Alpha Model and supports 5.1 to 6.4 GHz frequency range.

RW-2964-6HB0 delivers up to 250 Mbps throughput.

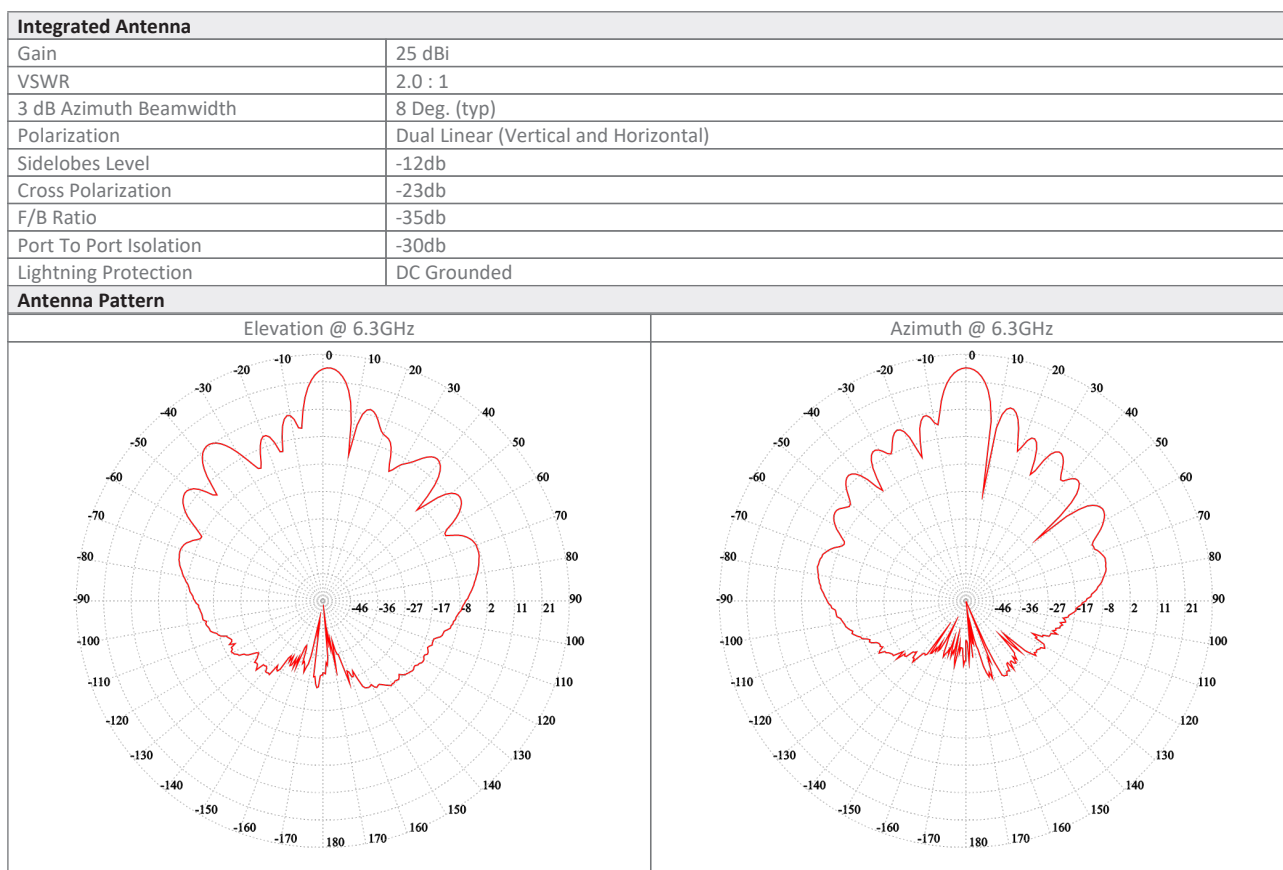
The unit includes an integrated antenna.

Product Highlights

- Up to 250 Mbps net aggregated throughput
- Telco-grade, extremely robust in harsh conditions
- Supports intra-site and inter-site synchronization via optional GPS receiver
- Configurable asymmetric throughput
- Advanced OFDM & MIMO technologies for operation in nLOS and dense radio environments
- Integrated 25dBi antenna
- IP-67
- Can operate as PtMP subscriber
- Support AES 256 encryption over the air (from release 5.1.30)

Product Specifications:

Configuration					
Architecture	Outdoor Unit with an integrated antenna				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT				
Radio					
Max Capacity	250 Mbps net aggregate throughput				
Range	Up to 120 km / 75 miles *				
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band); Dynamic Channel BW selection (20/40/80 MHz)				
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 per chain				
Duplex Technology	TDD				
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6				
Encryption	AES 128				
Support Indoor units	RADWIN PoE devices (9921-400X)				
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 through common GPS receiver per site				
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					
Band	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	Radio Compliance
6.4 GHz Universal (default)	5.950-6.425	5.950-6.425	5.950-6.425	5.950-6.425	Universal
5.1 GHz Universal	5.100-5.950	5.100-5.950	5.100-5.950	5.100-5.950	Universal
Mechanical					
ODU Dimensions	37.0(w) x 37.0(h) x 11.5(d) cm				
ODU Weight	3.4 kg / 7.50 lbs				
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<13W				
Environmental					
Operating Temperatures	-40°C to 60°C / -40°F to 140°F				
Humidity	100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m)				
Safety					
US/CAN (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22				
CE/IEC	Design to meet EN/IEC 6095062368-1, EN/IEC 60950-22				
EMC					
FCC	Design to meet 47 CFR, Part15, Subpart B, Class B				
ETSI	Design to meet EN 301 489-1, EN 301 489-4, EN 301 489-17				
CAN/CSA	Design to meet CISPR 22-10 Class B				
AS/NZS	Design to meet CISPR 32 2015 Class B				
Radio	Alpha outdoor radio with an integrated antenna				
Mounting kit	Die-cast aluminium mounting kit for wall-mount or pole-mount installation				
PoE power supply	RW-9921-400X series AC POE unit				
POE power cable	1.8m AC power cable with country-specific power plug				



Ordering Info

Part Number: RW-2964-6HB0

Description: RADWIN Alpha ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 6.4 GHz Universal.

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

Datasheet information can be changed by manufacturer without prior notice

Corporate Headquarters, T. +972.3.766.2900, E. sales@radwin.com, www.radwin.com

HaBarzel St 27, Tel Aviv-Yafo, Israel

The RADWIN name is a registered trademark of RADWIN Ltd. © All rights reserved, March 2022

DS RW-2964-6HB0/3.22

RADWIN