

RW-2A500-54-INT

Radwin 2000 Alpha 5GHz ODU PtP - 500 Mbps aggregate with Integrated antenna

Product Overview

Radwin 2000 Alpha 5GHz ODU PtP - 500 Mbps aggregate with Integrated antenna, RW-2954-6HC5, Requires RW-POE-24V or POE-24V-30WPG, 500 Mbps Net Aggregate Throughput, Up to 40 km range, Built-In GPS receiver, 21 dBi gain anntenna, 4.90 to 6.00 Frequency range, Dual Linear Polarization



Specifications

Overview:

RADWIN 2000 Alpha 5GHz ODU - 500Mbps Aggregate, Integrated Antenna

The RW-2954-6HC5 is a carrier-class radio that belongs to the RADWIN 2000 Alpha Series and supports 4.9 to 6 GHz frequency range. The Radio complies with Universal, UBR, ETSI, ETSI/GER & FCC/IC bands with a factory default of 5.4GHz Universal. RW-2954-6HC5 delivers up to 500 Mbps throughput. The unit includes an integrated antenna.

Features:

- Up to 500 Mbps net aggregated throughput
- Telco-grade, extremely robust in harsh conditions
- Built-in GPS for intra and inter site TDD synchronization
- 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)

Specifications:

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Specifications	
Product Code	RW-2A500-54-INT

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Product Specification Sheet

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	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) , 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	Supported (ETSI, ETSI/GER)
Diversity	Supported
Spectrum Viewer	Supported
Max Tx Power	26 dBm per chain
Duplex Technology	TDD
Error Correction	FEC k = 1 / 2, 2 / 3, 3 / 4, 5/6
Encryption	AES 256
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 via built-in GPS receiver
TDD Inter Site Synchronization	Supported via built-in GPS receiver
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
Dying gasp	**Supported (PoE voltage must be >= 55v)
Supported Bands	
Band	CBW 10MHz CBW 20MHz CBW 40MHz CBW 80MHz Radio Compliance [GHz] [GHz] [GHz] [GHz]
4.9 GHz Universal	4.900-4.995 4.900-4.995 4.900-4.995 4.900-4.995 Universal
5.1 GHz UBR	5.125-5.880 5.125-5.880 5.125-5.880 5.125-5.880 Universal
5.1 GHz Universal	5.145-5.340 5.140-5.345 5.130-5.355 5.130-5.375 Universal
5.4 GHz ETSI	5.475-5.705 5.470-5.710 5.490-5.690 5.490-5.650 ETSI EN 301 893
5.4 GHz Universal (default)	5.470-5.725 5.465-5.730 5.455-5.740 5.455-5.760 Universal

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Product Specification Sheet

5.7 GHz ETSI/GER	- 5.735-5.865 5.735-5.865 5.735-5.865 ETSI EN 302 502 , ECC Recommendation (06)04
5.8 GHz ETSI	- 5.735-5.865 - - ETSI EN 302 502
5.8 GHz FCC/IC	5.730-5.845 5.730-5.845 5.730-5.845 5.730-5.845 FCC 47CFR Part 15.407 , ISSED RSS-247
5.8 GHz Universal	5.725-5.850 5.725-5.850 5.725-5.850 5.725-5.850 Universal
5.9 GHz Universal	5.725-5.955 5.720-5.960 5.710-5.970 5.710-5.990 Universal
6.0 GHz Universal	5.695-6.055 5.690-6.060 5.680-6.070 5.680-6.090 Universal
Mechanical	
ODU Dimensions	32.5(w) x 32.5(h) x 6.7(d) cm
ODU Weight	2 kg / 4.41 lbs
Mounting Kit	Included
Power	
Power Feeding	Power provided over ODU-IDU cable
Power Consumption	
Network Device	
AC POE	RW-9921-400x
DC POE	RW-9921-2069
Package Content	
Package	Radio unit with integrated antenna, pole/wall mounting kit, IP67 gland for POE port
Environmental	
Operating Temperatures	-35 degreesC to 60 degreesC / -31 degreesF to 140 degreesF
Humidity	100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m)
MTBF	4,075,000 hours (Telcordia SR332 @25 degreesC)
Wind Resistance operational	180Km/h
Safety	
EU/Intl	EN/IEC 62368-1, EN/IEC 60950-22
USA	cTUVus: UL 62368-1:2014, UL 60950-22
EMC	
FCC	FCC 47 CFR, Part15, Subpart B, Class B
ETSI	ETSI EN 301 489-1, ETSI EN 301 489-4, ETSI 301 489-17
Canada	ICES-003, CISPR 32, Class B
AS/NZS	CISPR 32, Class B
Integrated Antenna	
Gain	21 dBi

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Product Specification Sheet

Detailed Gain	4.900: 19.0dBi
	4.950 - 5.050GHz: 18.0dBi
	5.100 - 5.500GHz: 20.0dBi
	5.550 - 5.800GHz: 22.0dBi
	5.850 - 5.950GHz: 21.0dBi
	6.000: 20.0dBi
VSWR	2.0 : 1
3 dB Azimuth Beamwidth	10 Deg. (Typ)
3 dB Elevation Beamwidth	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

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/RW-2A500-54-INT-Radwin-2000-Alpha-5GHz-ODU-PtP-500-Buy-p-305229.php>

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