RISBO RW5000 Model

Point-to-Point/ Multi Point Radio - Data Sheet

RW5000

Product Description

RW5000 is a carrier-class radio that the RW5000 Series and supports 5.7 to 5.85 GHz frequency range.

The Radio complies with a factory default of 5.8 GHz Universal.

RW5000 delivers up to 2500 Mbps throughput.

The radio is connectorized for external antenna (2 x N-type) or integrated 26dBi antenna

Product Highlights

- 500-2500 Mbps Ethernet net throughput
- Long range - Up to 40 km / 25 miles
- Telco-grade, extremely robust in harsh conditions
- Supports intra-site and inter-site synchronization to maximize capacity
- Configurable asymmetric throughput
- Advanced OFDM & MIMO technologies for operation in nLOS/NLOS and dense radio environments
- Point-to-Point & Point-to-Multipoint on a single platform
- Flexible capacity, software upgradeable
- Support SyncE and V1588v2

RISBO

Product Specifications:

Configuration	
Architecture	Outdoor Unit connectorized antenna (2 x N-type) or integrated antenna
PoE to ODU Interface	Outdoor CAT-6; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT/25000Base-T, POE

Radio	
Max Capacity	2500 Mbps net aggregate throughput
Range	Point to Point UP to 120 km / 75 miles, Point to Multipoint up to 40km/25miles
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band),160 MHz
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM256QAM, 1024QAM)
Adaptive Modulation, Coding & Channel BW	Supported
Automatic Channel Selection	Supported upon power up
DFS	Not Supported
Diversity	Supported
Spectrum Viewer	Supported
1588 v2 TC	Supported
Max Tx Power	25 dBm
Duplex Technology	TDD
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6
Encryption	AES 128
Support Indoor units	RISBO PoE devices (9921W101X)
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
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
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; ISED RSS-247
5.8 GHz MII	5.725-5.850	5.725-5.850	5.725-5.850	5.725-5.850	CMIIT RTA

Mechanical	
ODU Dimensions	19(w) x 19.5(h) x 4(d) cm Not included Antenna, 37(w) x 37(h) x 8(d) cm Antenna included.
ODU Weight	<2kg , <2.5kg

Power	
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	
US/CAN (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22
CE/IEC	EN/IEC 60950-1, EN/IEC 60950-22

EMC	
FCC	47 CFR, Part15, Subpart B, Class B
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4
CAN/CSA-CEI/IEC	CISPR 22-2010 Class B

Warranty: 3 years

Ordering Info
Model: RW5000
Part Number: RW5000 ODU
Description: RW5000 ODU,supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz Universal.
HS Code: 85.17.62.
Made in Singapore