



## RISBO RW2000 Model

Point-to-Point Radio - Data Sheet (RW2000E-EXT)



### RW2000E-EXT



#### Product Description

RW2000E is a carrier-class radio that the RW2000E Series and supports 4.9 to 6 GHz frequency range.

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

RW2000E delivers up to 2000 Mbps throughput.

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

#### Product Highlights

- 50-2000 Mbps Ethernet net throughput
- Long range - Up to 120 km / 75 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

## Product Specifications:

Configuration					
Architecture	Outdoor Unit connectorized antenna (2 x N-type) or integrated antenna				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT/25000Base-T, POE				
Radio					
Max Capacity	2000 Mbps net aggregate throughput				
Range	Up to 120 km / 75 miles				
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	<1kg , <2.5kg				
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<10W				
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

**Part Number:** RW2000E-EXT

**Description:** RW2000E-EXT ODU,supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz Universal.

**HS Code:** 85.17.62.99.00

Made in Singapore



Certificate Number: 175377



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Datasheet information can be changed by manufacturer without prior notice

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