



## RW-2948-0250

RW-2948-0250 is a carrier-class radio supporting the 2.4 GHz, 4.8 -4.9 GHz and 5.x GHz bands and complying with FCC, IC (Canada), MII (China) and WPC (India) regulations (factory default: 4.8 GHz).

The multi-band radio is part of the RADWIN 2000 L-Series which provides 50 Mbps symmetric throughput and a flexible combination of native TDM (up to 16 E1s/T1s) and Ethernet, enabling operators to cost-effectively support converged TDM and IP networks.

RADWIN RW-2948-0250 is connectorized for use with external antennas.

### Product Highlights

- 50 Mbps symmetric throughput
- Native TDM transport
- Long range – up to 120 km/75 miles
- Single radio supporting multiple bands (2.4 GHz, 4.8 – 4.9 GHz and 5.x GHz)
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable to operate in tough conditions, extreme temperatures and non line-of-sight scenarios
- Ease of operation and maintenance

### Product Specifications

Configuration	
Architecture	Outdoor Unit Connectorized for External Antenna
IDU to ODU Interface	Outdoor CAT-5e cable; Maximum cable length: 100 m
Radio	
Capacity	50 Mbps symmetric net throughput (up to 16 x E1s/T1s plus Ethernet)
Range	Up to 120 km / 75 miles
Channel Bandwidth	20 MHz
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)
Adaptive Modulation & Coding	Supported
Automatic Channel Selection	Supported
Diversity	Supported
Spectrum View	Supported
Max Tx Power	4.8 – 4.9 GHz, 5.x GHz: 25 dBm 2.4 GHz: 26 dBm
Duplex Technology	TDD
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6
Encryption	AES 128
Supported Indoor Units	IDU-C Series (RW-72XX-2000)
Hub Site Synchronization (HSS)	Up to 16 collocated links (RADWIN 2000 and/or WinLink 1000)
Monitored Hot Standby (MHS)	1+1 with RADWIN 2000 link or WinLink 1000 link

Supported Bands		
Band	Occupied Frequency Range	Radio Compliance
5.9 GHz Universal	5.730 - 5.950	
5.8 GHz FCC/IC	5.725 - 5.850	FCC 47CFR, Part 15, Subpart C and IC RSS-210
5.8 GHz MII China	5.730 - 5.845	MI I for 5.8 GHz
5.8 GHz WPC India	5.825 - 5.875	WPC GSR-38
5.4 GHz FCC	5.480 - 5.715	FCC 47CFR, Part 15, Subpart E
5.4 GHz IC	5.480 - 5.715	IC RSS-210
5.4 GHz Universal	5.490 - 5.710	
5.3 GHz FCC/IC	5.260 - 5.340	FCC 47CFR, Part 15, Subpart E and IC RSS-210
5.3 GHz Universal	5.140 - 5.345	
4.9 GHz FCC/IC	4.940 - 4.990	FCC 47CFR, Part 90, Subpart Y and IC RSS-111
4.9 GHz Universal	4.890 - 5.010	
4.8 GHz Universal*	4.800 - 4.900	
2.4 GHz FCC/IC	2.402 - 2.472	FCC 47CFR, Part 15, Subpart C and IC RSS-210

\* Factory default

<b>Mechanical</b>	
<b>Dimensions</b>	19.5(w) x 27.0(h) x 8.0(d) cm
<b>Weight</b>	1.8 kg / 3.6 lbs
<b>Power</b>	
<b>Power Feeding</b>	Power provided over ODU-IDU cable
<b>Power Consumption</b>	<35W (IDU + ODU)
<b>Environmental</b>	
<b>Operating Temperatures</b>	-35°C - 60°C / -31°F - 140°F
<b>Humidity</b>	100% condensing, IP67 (totally protected against dust and against immersion up to 1m)
<b>Safety</b>	
<b>FCC/IC (cTUVus)</b>	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22
<b>ETSI</b>	EN/IEC 60950-1, EN/IEC 60950-22
<b>EMC</b>	
<b>FCC</b>	CFR47 Class B, Part15, Subpart B
<b>ETSI</b>	EN 300 386, EN 301 489-1, EN 301 489-4
<b>CAN/CSA-CEI/IEC</b>	CISPR 22-04 Class B
<b>AS/NZS</b>	CISPR 22-2004 Class B

#### Ordering Information

**Part Number:** RW-2948-0250

**Description:** RADWIN 2000 L-Series ODU Connectorized for external antenna (2x N-type), supporting 4.8 GHz band and multi frequency bands at 2.x GHz and 5.x GHz, factory default 4.8 GHz

For external antennas see the RADWIN Product Catalog.



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