



RW-2960-0100

RW-2960-0100 is a carrier-class radio supporting the 4.9 to 6 GHz bands and complying with FCC and IC (Canada) regulations (factory default: 6 GHz). The multi-band radio is part of the RADWIN 2000 C-Series that delivers highest capacity and extended range for carriers' backhaul needs.

Packing native TDM and Ethernet over a single wireless link, the RADWIN 2000 C-Series provides 100 Mbps net throughput (up to 16 E1/T1 plus Ethernet) at a range of up to 120 km/75 miles.

RADWIN RW-2960-0100 comes with an integrated antenna.

Product Highlights

- 100 Mbps Ethernet net throughput and up to 16 E1s/T1s
- Native TDM transport
- Long range – up to 120 km/75 miles
- Adaptive asymmetric throughput – dynamic allocation between uplink and downlink
- Single radio supporting multiple bands (4.9 to 6 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 with Integrated Antenna
IDU to ODU Interface	Outdoor CAT-5e cable; Maximum cable length: 100 m
Radio	
Capacity	100 Mbps net throughput (up to 16 x E1s/T1s plus Ethernet)
Range	Up to 120 km / 75 miles
Channel Bandwidth	10,20,40 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	25 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) IDU-E Series (RW-71XX-2000)
QoS	Packet classification to 4 queues according to 802.1p and Diffserv, Dynamic scheduling according to air interface changes
VLAN	Supported
Ethernet Ring Protection	Supported, including Ethernet +1
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
6 GHz Universal*	5.690 - 6.060 GHz	
5.9 GHz Universal	5.730 - 5.950 GHz	
5.8 GHz FCC/IC	5.725 - 5.850 GHz	FCC 47CFR, Part 15, Subpart C and IC RSS-210
5.4 GHz Universal	5.490 - 5.710 GHz	
4.9 GHz Universal	4.890 - 5.010	

* Factory default

Mechanical	
Dimensions	37.1(w) x 37.1(h) x 11.0(d) cm
Weight	3.5 kg / 7 lbs
Power	
Power Feeding	Power provided over ODU-IDU cable
Power Consumption	<35W (IDU + ODU)
Environmental	
Operating Temperatures	-35°C - 60°C / -31°F - 140°F
Humidity	100% condensing, IP67 (totally protected against dust and against immersion up to 1m)
Safety	
FCC/IC (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22
ETSI	EN/IEC 60950-1, EN/IEC 60950-22
EMC	
FCC	CFR47 Class B, Part15, Subpart B
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4
CAN/CSA-CEI/IEC	CISPR 22-04 Class B
AS/NZS	CISPR 22-2004 Class B
Integrated Antenna	
Minimum Peak Gain	18.5 dBi @ 4.9-5.0 GHz 19.5 dBi @ 5.0-5.15 GHz 22.5 dBi @ 5.15-6.0 GHz 21.5 dBi @ 6.0-6.06 GHz
VSWR	1.5 : 1 (typ) 1.7 : 1 (max)
3 dB Beamwidth	9° (typ)
AZ & EL Beam Squint	± 2° Port V & Port H
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	ETSI EN 302 085 V1.1.2, TS1-TS3
Cross Polarization	ETSI EN 302 085 V1.1.2, TS1-TS3
F/B Ratio	-35 dB (max)
Port To Port Isolation	40 dB (min)
Lightning Protection	DC grounded

Ordering Information
Part Number: RW-2960-0100



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