

RADWIN 2000 C-Series



RW-2825-0100

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RW-2825-0100 is a carrier-class radio that supports 2.5-2.7 GHz License band and fully complies with FCC BRS regulation. This radio is part of the RADWIN 2000 C-Series that delivers high capacity and extended range for Corporate Access and 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-2825-0100 comes with an integrated antenna.

Product Highlights

- 100 Mbps Ethernet net throughput and up to 16E1s/T1s
- Native TDM transport
- Long range – up to 120 km/75 miles
- Adaptive asymmetric throughput – dynamic allocation between uplink and downlink
- Single radio supporting 2.5-2.7 GHz
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable to operate in tough conditions, extreme temperatures and non line-of-sight scenarios

Product Specifications

Configuration	
Architecture	Outdoor Unit with Integrated Antenna
IDU to ODU Interface	Outdoor CAT-5e cable; Maximum cable length: 100m
Radio	
Capacity	100 Mbps net aggregate throughput (up to 16E1s/T1s plus Ethernet)
Range	Up to 120 km / 75 miles
Channel Bandwidth	Configurable: 5, 10, or 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	25 dBm
TPC Range	17 dBm (8-25 dBm) Minimum TX power step of 1db
Channel minimum step	250 KHz
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-1000) RADWIN PoE device (RW-9921-001X)
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+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
2.5 GHz FCC BRS/EMS	2.496-2.700 GHz	FCC 47CFR, Part 27

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

Ordering Information

Part Number: RW-2825-0100

Description:

RADWIN 2000 C-Series ODU with integrated antenna, supporting 2.5 to 2.7 GHZ

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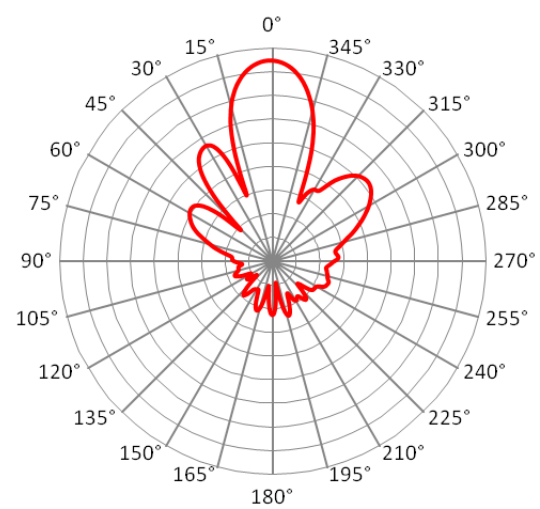
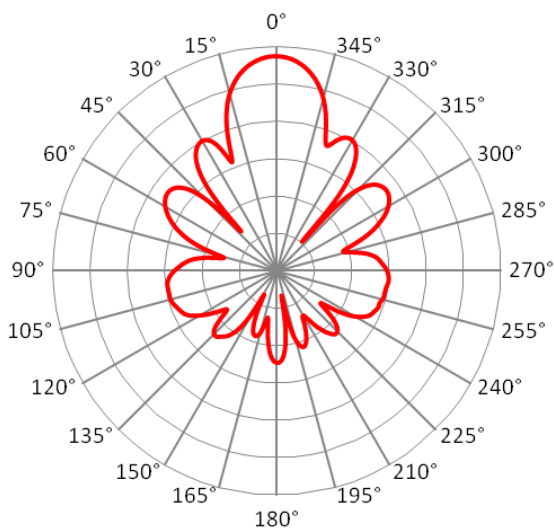
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Integrated Antenna	
Frequency Range	2.3 - 2.7 GHz
Minimum peak gain	19 ± 1 dBi
VSWR	2.0 : 1 (max) 1.5 : 1 (typ)
3dB Beam width	12° (typ)
AZ & EL Beam Squint	± 2. Port V & Port H
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	ETSI EN 302 326-3 V1.1.2. DN4
Cross Polarization	25dB
Port To Port Isolation	30 dB (min)
F/B Ratio	30dB (max)
Lightning Protection	DC grounded

Antenna Pattern

Elevation @ 2.5GHz

Azimuth @ 2.5GHz



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