

RADWIN A Model

Point-to-Point Radio - Data Sheet (RW2000/ODU/A/F24/FCC/EXT/25M)



RW-2024-A225

Product Description

RW-2024-A225 is a carrier-class radio that belongs to the RADWIN 2000 A 25M Series and supports 2.4 GHz frequency band.

The Radio complies with FCC/IC regulations with a factory default of 2.4 GHz FCC/IC.

RW-2024-A225 delivers up to 25 Mbps throughput and up to 4xE1s/T1s over an extended range.

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

Product Highlights

- 25 Mbps Ethernet net throughput and 4xE1s/T1s Native TDM interfaces
- 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
- Adaptive asymmetric throughput – dynamic allocation between uplink and downlink
- Advanced OFDM & MIMO technologies for operation in nLOS/NLOS and dense radio environments

Product Specifications:

Configuration				
Architecture	Outdoor Unit connectorized for external antenna (2 x N-type)			
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT			
Radio				
Max Capacity	25 Mbps net aggregate throughput (up to 4xE1s/T1s plus Ethernet)			
Range	Up to 120 km / 75 miles *			
Channel Bandwidth	Configurable: 5, 10, 20 MHz (for the default band)			
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)			
Adaptive Modulation & Coding	Supported			
Automatic Channel Selection	Supported			
DFS	Not Supported			
Diversity	Supported			
Spectrum Viewer	Supported			
Max Tx Power	26 dBm per chain			
Duplex Technology	TDD			
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6			
Encryption	AES 128; FIPS 197			
Support Indoor units	IDUs: RW-7100-2000, RW-7102-2000, RW-7216-2000, RW-7208-2000, RW-7204-2000, RW-7200-2000, RADWIN PoE devices (RW-9921-101X)			
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			
Ethernet Ring Protection	Supported, including Ethernet 1+1			
TDD Intra Site Synchronization	Supported			
TDD Inter Site Synchronization	Supported through common GPS receiver per site			
Monitored Hot Standby	1+1 with RADWIN 2000 link			
Supported Bands				
Band	CBW 5MHz [GHz]	CBW 10MHz [GHz]	CBW 20MHz [GHz]	Radio Compliance
2.4 GHz FCC/IC	2.4095-2.4645	2.407-2.467	2.402-2.472	FCC 47CFR Part 15.247; ISED RSS-210
Mechanical				
ODU Dimensions	21(w) x 17(h) x 7(d) cm			
ODU Weight	1.2 kg / 2.65 lbs			
Power				
Power Feeding	Power provided over ODU-IDU cable			
Power Consumption	<12W			
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			

Ordering Info

Part Number: RW-2024-A225

Description: RADWIN A ODU, connectorized for external antenna (2 x N-type), supporting 2.4 GHz FCC/IC frequency band.

* May be limited by regulation in the specific band being used

Datasheet information can be changed by manufacturer without prior notice