

RADWIN 2000

RW-2024-A125 ODU Unit - Data Sheet



A-Series

RW-2024-A125

RW-2024-A125 is a carrier-class radio supports 2.4 GHz and 2.3 GHz bands, complying with FCC, IC (Canada) and Universal regulations.

RW-2024-A125 Packing native TDM and Ethernet services over a single wireless link and provides 25 Mbps net aggregate throughput (up to 4XE1/T1 plus Ethernet).

RW-2024-A125 comes with an integrated antenna.

Product Highlights

- 25 Mbps Ethernet net throughput and up to 4E1s/T1s
- Adaptive asymmetric throughput – dynamic allocation between uplink and downlink
- Single radio supporting multiple bands (2.4 and 2.3 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; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT
Radio	
Capacity	25 Mbps net aggregate throughput (up to 4E1s/T1s plus Ethernet)
Range	Up to 120 km / 75 miles
Channel Bandwidth	Configurable: 5,10 and 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	Up to 26dBm
Duplex Technology	TDD
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6
Encryption	AES 128
Ethernet Interface	10/100/1000BaseT
Supported Indoor Units	IDU-C Series (RW-72XX-2000), IDU-E Series (RW-71XX-1000) RADWIN PoE devices (RW-9921-101X) ,
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

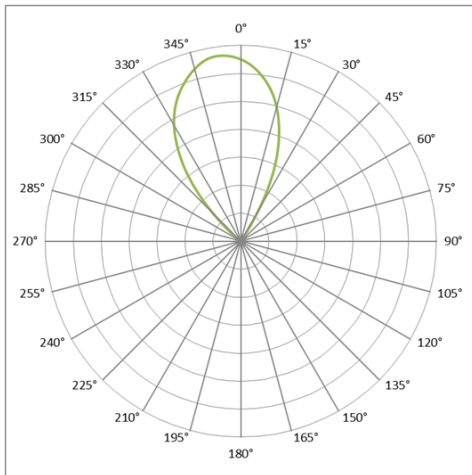
Supported Bands				
Occupied Frequency Range				
Band	Channel BW 5MHz	Channel BW 10MHz	Channel BW 20MHz	Radio Compliance
2.4 GHz FCC/IC*	2.4095-2.4645 GHz	2.407-2.467 GHz	2.402-2.472 GHz	FCC PART 15, part C and RSS 210
2.3 GHz Universal	2.3045-2.4745 GHz	2.302-2.477 GHz	2.297-2.482 GHz	

Mechanical	
Dimensions	19.5(w) x 27.0(h) x 8.0(d) cm
Weight	1.8 kg / 3.6 lbs
Power	
Power Feeding	Power provided over ODU-IDU cable
Power Consumption	<12W (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
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

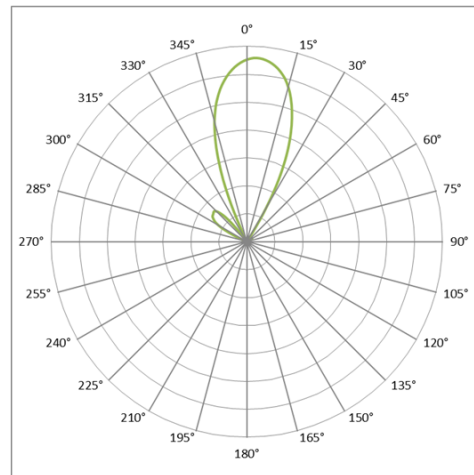
Integrated Antenna

Minimum Peak Gain	13 dBi @ 2.3-2.7 GHz
VSWR	1.5 :1 (typ) , 2 : 1(max)
3 dB Beam width AZ	35° (typ)
3 dB Beam width EL	35° (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Side lobes Level	ETSI EN 302 326-3 V1.3.1 (2008-02) DN2
Cross Polarization	ETSI EN 302 326-3 V1.3.1 (2008-02) DN2
F/B Ratio	-20 dB (max)
Port To Port Isolation	20 dB (min)
Lightning Protection	DC grounded
Antenna Pattern	

Elevation @ 2.4GHz



Azimuth @ 2.4GHz



Ordering Information

Part Number: RW-2024-A125

Description: RADWIN 2000 A-Series ODU with integrated antenna, supporting multiple frequency bands at 2.x GHz, factory default 2.4 GHz FCC/IC

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