

RADWIN 2000

RW-2250-A125 ODU Unit - Data Sheet



A-series

RW-2250-A125

RW-2250-A125 is a carrier-class radio supports 5.3 GHz, 5.4 GHz and 5.8 GHz bands and complying with ETSI regulations (factory default: 5.4 GHz ETSI).

RW-2050-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-2250-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 (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

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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 and up to 4E1s/T1s
Range	Up to 40 km / 25 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	5.8 GHz: 8dBm / total 36 dBm EIRP 5.4 GHz: 12 dBm / total 30 dBm EIRP 5.3 GHz: 5 dBm / total 23 dBm EIRP
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				
Band	Occupied Frequency Range			Radio Compliance
	Channel BW 5MHz	Channel BW 10MHz	Channel BW 20MHz	
5.8 GHz ETSI		5.725-5.875	5.725-5.875	ETSI EN 302 502
5.4 GHz ETSI*	5.4725-5.7225	5.475-5.720	5.470-5.725	ETSI EN 301 893
5.3 GHz ETSI		5.150-5.350	5.150-5.350	ETSI EN 301 893

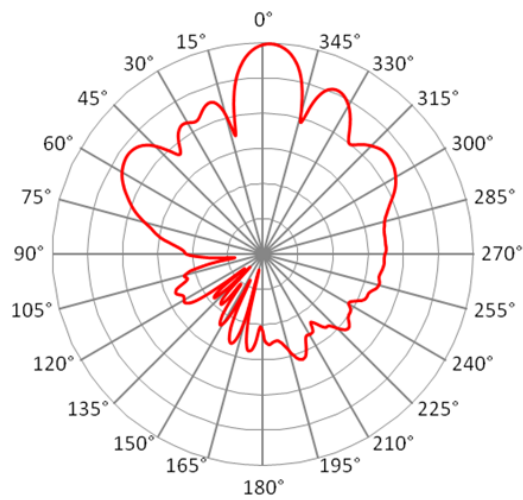
* Factory Default

Mechanical	
Dimensions	24.1(w) x 19.7(h) x 7.7(d) cm
Weight	1.3 kg / 2.8 lbs
Power	
Power Feeding	Power provided over ODU-IDU cable
Power Consumption	<12W
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

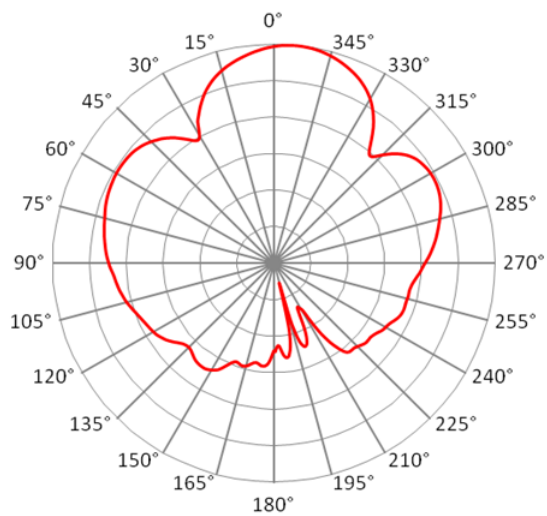
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Integrated Antenna	
Minimum Peak Gain	15.5 ± 1.0 dBi
VSWR	1.5 : 1 (typ) 1.7 : 1 (max)
3 dB Beamwidth AZ.	15° (typ)
3 dB Beamwidth EL.	30° (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	ETSI EN 302 085 V1.1.2, TS1-TS3
Cross Polarization	ETSI EN 302 085 V1.1.2, TS1-TS3
F/B Ratio	-20 dB (max)
Port To Port Isolation	40 dB (min)
Lightning Protection	DC grounded
Antenna Pattern	

Azimuth @ 5.4GHz



Elevation @ 5.4GHz



Ordering Information

Part Number: RW-2250-A125

Description: RADWIN 2000 A-Series ODU with integrated antenna, supporting multi frequency bands at 5.x GHz,

Factory default 5.4 GHz ETSI

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