

RADWIN 2000 D-Plus Series

Point-to-Point Radio - Data Sheet (RW2000/ODU/DP/F58/WPC/EXT)



RW-2458-D200

Product Description

RW-2458-D200 is a carrier-class radio that belongs to the RADWIN 2000 D-Plus Series and supports 5.8 GHz frequency band.

The Radio complies with WPC regulations with a factory default of 5.8 GHz WPC.

RW-2458-D200 delivers up to 350 Mbps throughput.

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

Product Highlights

- 350 Mbps Ethernet net throughput
- 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
- Configurable asymmetric throughput
- 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	350 Mbps net aggregate throughput			
Range	Up to 120 km / 75 miles			
Channel Bandwidth	Configurable: 10, 20, 40 MHz (for the default band)			
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)			
Adaptive Modulation, Coding & Channel BW	Supported			
Automatic Channel Selection	Supported upon power up			
DFS	Not Supported			
Diversity	Supported			
Spectrum Viewer	Supported			
Max Tx Power	25 dBm			
Duplex Technology	TDD			
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6			
Encryption	AES 128; FIPS 197			
Support Indoor units	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			
TDD Intra Site Synchronization	Supported			
TDD Inter Site Synchronization	Supported through common GPS receiver per site			
Supported Bands				
Band	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	Radio Compliance
5.8 GHz WPC	5.825-5.875	5.825-5.875	5.825-5.875	WPC (India) G.S.R 38(E) dated 19 January, 2007 Notification
Mechanical				
ODU Dimensions	28(w) x 19.5(h) x 8(d) cm			
ODU Weight	2.4 kg / 5.29 lbs			
Power				
Power Feeding	Power provided over ODU-IDU cable			
Power Consumption	<20W			
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-2458-D200

Description: RADWIN 2000 D-Plus ODU, connectorized for external antenna (2 x N-type), supporting 5.8 GHz WPC frequency band.

Datasheet information can be changed by manufacturer without prior notice