RADWIN Subscriber Units, SU ECO Model

Subscriber Unit - Data Sheet (RW5000/SU-ECO/5D02/F50/WW/DISH)



RW-5D02-UA50

Product Description

RW-5D02-UA50 Subscriber Unit (HSU) provides high capacity access connectivity of up to 200 Mbps net aggregate throughput. RW-5D02-UA50 supports 4.9 to 6 GHz and complies with Universal & UBR regulations. The radio comes with an integrated 22dbi dish antenna.

Product Highlights

- Up to 200 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Exceptional short and constant latency
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable operation in harsh conditions, extreme temperatures and non line -of-sight scenarios
- Ease of operation and maintenance

RADWIN

Product Specifications:

Configuration					
Architecture	Outdoor Unit with an integrated antenna				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT				
Radio					
Max Capacity	200 Mbps net aggregate throughput				
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band)				
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Adaptive Modulation & Coding	Supported				
DFS	Not Supported				
Diversity	Supported				
Max Tx Power	25 dBm per chain				
Duplex Technology	TDD				
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6				
Encryption	AES 128; FIPS 197				
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric				
Layer 2	HUB Mode				
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv				
VLAN Support	802.1Q, QinQ, 4094 VLANs				
ODU Management	IPv4/IPv6 dual-stack; SNMP v1 and v3; HTTP using web browser				
Supported Bands					
Band	**CBW 10MHz [GHz]**	**CBW 20MHz [GHz]**	**CBW 40MHz [GHz]**	**CBW 80MHz [GHz]**	**Radio Compliance**
5.4 GHz Universal (default)	5.470-5.725	5.465-5.730	5.455-5.740	5.455-5.760	Universal
4.9 GHz Universal	4.900-4.995	4.900-4.995	4.900-4.995	4.900-4.995	Universal
6.0 GHz Universal	5.695-6.055	5.690-6.060	5.680-6.070	5.680-6.090	Universal
5.9 GHz Universal	5.725-5.955	5.720-5.960	5.710-5.970	5.710-5.990	Universal
5.8 GHz Universal	5.725-5.850	5.725-5.850	5.725-5.850	5.725-5.850	Universal
5.1 GHz Universal	5.145-5.340	5.140-5.345	5.130-5.355	5.130-5.375	Universal
5.1 GHz UBR	5.125-5.880	5.125-5.880	5.125-5.880	5.125-5.880	Universal
Mechanical					
ODU Dimensions	Φ464mmx250mm				
ODU Weight	1.6 kg				
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<9W				
AC POE	24V 0.5A supplied with product				
Environmental					
Operating Temperatures	-20°C to 60°C				
MTBF	>700k hours				
Wind Resistance operational	200Km/h				
Humidity	5%-95% RH Non-condensing				
Ingress Protection	IP56				
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					
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-5D02-UA50
Description: RADWIN SU ECO ODU, with an integrated 22dbi dish antenna, supporting multi frequency bands at 5.x GHz

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

Datasheet information can be changed by manufacturer without prior notice

Corporate Headquarters, T. +972.3.766.2900, E. sales@radwin.com, www.radwin.com
The RADWIN name is a registered trademark of RADWIN Ltd. © All rights reserved, October 2023
DS RW-5D02-UA50/10.23