

RADWIN Subscriber Units, SU PRO Model

Subscriber Unit - Data Sheet (RW5000/SU-Pro/5H01/F54/ETSI/INT)



RW-5H01-2P54

Product Description

RW-5H01-2P54 is SU PRO Model, subscriber unit that delivers up to 250 Mbps net aggregate throughput and supports SLA (CIR) or Best-Effort service level.

Can be used in a P2P configuration

SU PRO supports 5.4 to 5.8 GHz and complies with ETSI regulations.

The unit includes an integrated 22dBi antenna.

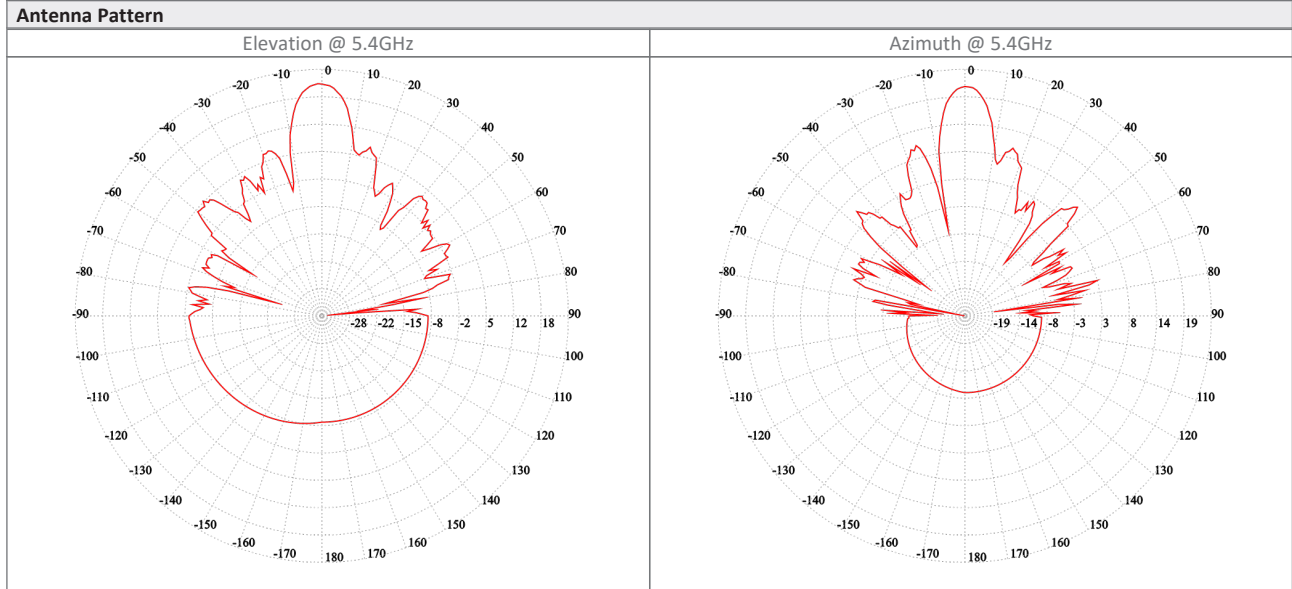
Product Highlights

- Up to 250 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Guaranteed Service Level Agreement based on CIR or Best Effort Service level
- 22dBi antenna gain
- Short and constant latency
- Advanced MIMO, OFDM and Antenna Diversity
- Robust and reliable operation in harsh environmental conditions including obstructed line-of-sight scenarios
- IP-67
- Simplified installation using a Smartphone app.

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	250 Mbps net aggregate throughput; Upgradable to 500 Mbps with license key			
Range	Up to 40 km / 25 miles *			
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band); Dynamic Channel BW selection (20/40/80 MHz)			
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)			
Adaptive Modulation & Coding	Supported			
Automatic Channel Selection	Supported upon power up			
DFS	Supported (ETSI)			
Diversity	Supported			
Max Tx Power	26 dBm per chain; max EIRP 30 dBm (for the default band)			
Duplex Technology	TDD			
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6			
Encryption	AES 128			
Support Indoor units	RADWIN PoE devices (9921-102X, included in the package)			
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; SNMPv1, SNMPv3; HTTP/HTTPS using web browser			
802.1x	Supported			
Option 82	Supported			
Non PPPoE filtering	Supported			
DHCP Filter	Supported			
IGMP snooping	Supported			
Nomadic subscribers	Supported			
RADIUS Authorization	Supported			
RADIUS User authentication	Supported			
Syslog	Supported			
Supported Bands				
Band	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	Radio Compliance
5.4 GHz ETSI (default)	5.470-5.710	5.490-5.690	5.490-5.650	ETSI EN 301 893
5.8 GHz ETSI	5.735-5.865	-	-	ETSI EN 302 502
Mechanical				
ODU Dimensions	32.5(w) x 32.5(h) x 6.4(d) cm			
ODU Weight	2 kg / 4.41 lbs			
Power				
Power Feeding	Power provided over ODU-IDU cable			
Power Consumption	<13W			
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				
EU/Intl	EN/IEC 62368-1, EN/IEC 60950-22			
USA	cTUVus: UL 60950-1, UL 60950-22			
EMC				
FCC	FCC 47 CFR, Part15, Subpart B, Class B			
ETSI	ETSI EN 301 489-1, ETSI EN 301 489-4, ETSI 301 489-17			
Canada	ICES-003, CISPR 32, Class B			
AS/NZS	CISPR 32, Class B			

Integrated Antenna	
Gain	21 dBi
VSWR	2.0 : 1
3 dB Azimuth Beamwidth	10 Deg. (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	-12 dB(typ)
Cross Polarization	-25dB (typ)
F/B Ratio	-25 dB
Port To Port Isolation	30 dB (typ)
Lightning Protection	DC Grounded



Ordering Info

Part Number: RW-5H01-2P54

Description: RADWIN SU PRO ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz ETSI.

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

Datasheet information can be changed by manufacturer without prior notice



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