RADWIN SU-PRO 100 Series

Subscriber Unit - Data Sheet (RW5000/SU-Pro/5H00/F54/IC/INT)

RW-5H00-1P54

Product Description

RW-5H00-1P54 is SU PRO, Integrated subscriber unit that delivers up to 100 Mbps net aggregate throughput and supports SLA (CIR) or Best-Effort service level.
SU PRO supports 5.4 to 5.8 GHz and complies with IC & FCC/IC regulations.
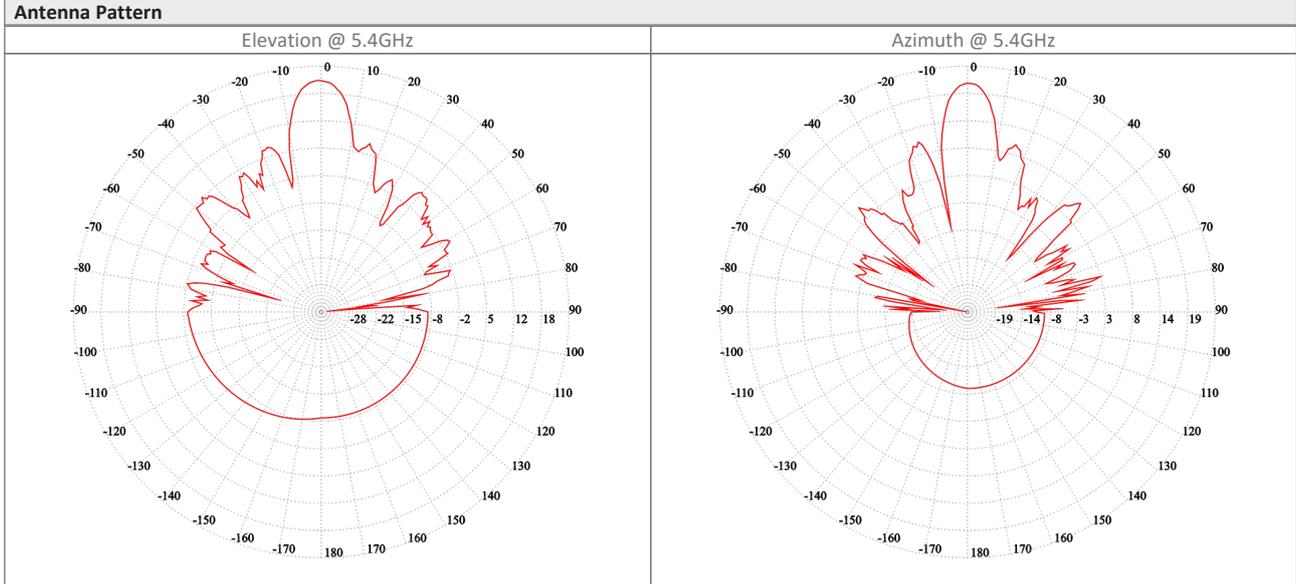The unit includes an integrated 22dBi antenna.

Product Highlights

- Up to 100 Mbps net aggregated throughput, upgradable to 250Mbps
- 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.

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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	100 Mbps net aggregate throughput; Upgradable to 250 Mbps with license key
Range	Up to 40 km / 25 miles
Channel Bandwidth	Configurable: 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
DFS	Supported (IC)
Diversity	Supported
Max Tx Power	21 dBm
Duplex Technology	TDD
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6
Encryption	AES 128
Support Indoor units	RADWIN PoE device (included in the package); pinout: (+) pins 4/5, (-) pins 7/8
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, SNMPv3; HTTP/HTTPS using web browser

Supported Bands					
Band	**CBW 10MHz [GHz]**	**CBW 20MHz [GHz]**	**CBW 40MHz [GHz]**	**CBW 80MHz [GHz]**	**Radio Compliance**
5.4 GHz IC (default)	-	5.480-5.715	5.480-5.715	5.485-5.600	ISED RSS-247
5.8 GHz FCC/IC	5.730-5.845	5.730-5.845	5.730-5.845	5.730-5.845	FCC 47CFR Part 15.407; ISED RSS-247

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	<9W

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 301 489-1, EN 301 489-4, EN 301 489-17
CAN/CSA-CEI/IEC	AS/NZS, CISPR 32 2015 Class B

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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

Antenna Pattern

Elevation @ 5.4GHz	Azimuth @ 5.4GHz

Ordering Info

Part Number: RW-5H00-1P54

Description: RADWIN SU-PRO 100 ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz IC.

Datasheet information can be changed by manufacturer without prior notice

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