RADWIN Subscriber Units, SU PRO Model

Subscriber Unit - Data Sheet (RW5000/SU-Pro/56C5/F54/ETSI/EMB)

RW-56C5-2P54

Product Description

RW-56C5-2P54 Subscriber Unit (HSU) provides high capacity access connectivity of up to 500 Mbps net aggregate throughput.
RW-56C5-2P54 supports 5.4 to 5.8 GHz and complies with ETSI regulations.
The radio comes with an embedded antenna and connectorized for external antenna (2 x SMA).
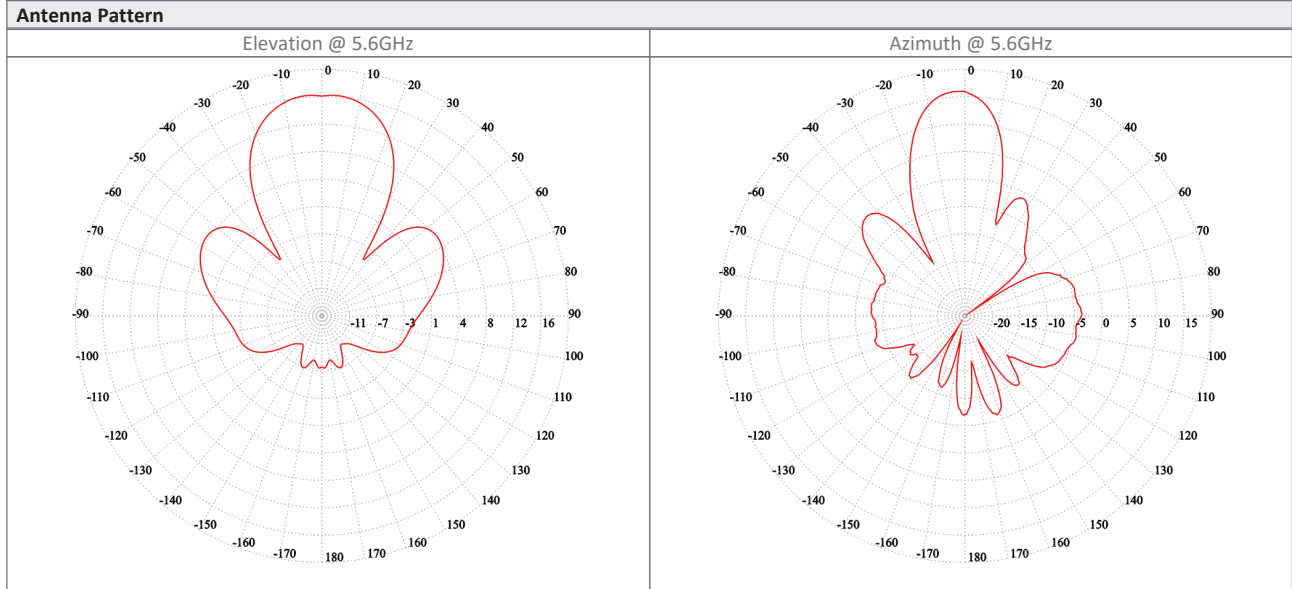
Product Highlights

- Up to 500 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Guaranteed Service Level Agreement (SLA) per HSU
- 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

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Product Specifications:

Configuration	
Architecture	Outdoor Unit with an embedded antenna and connectorized for external antenna (2 x SMA)
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT

Radio	
Max Capacity	500 Mbps net aggregate throughput (up to 250 Mbps per direction)
Range	Up to 40 km / 25 miles *
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band)
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	24 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	18.2(w) x 18.2(h) x 6.0(d) cm
ODU Weight	0.5 kg / 1.10 lbs

Power	
Power Feeding	Power provided over ODU-IDU cable. Note: DC POE RW-9921-2059 is required in case of external antenna and floating ground DC feed
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

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Integrated Antenna

Gain	16 dBi
VSWR	1.7:1
3 dB Azimuth Beamwidth	17 Deg. (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	-12 dB(typ)
Cross Polarization	-30dB (typ)
F/B Ratio	-25 dB
Port To Port Isolation	35 dB (typ)
Lightning Protection	DC Grounded

Antenna Pattern

Elevation @ 5.6GHz	Azimuth @ 5.6GHz

Ordering Info

Part Number: RW-56C5-2P54

Description: RADWIN SU PRO ODU, with an embedded antenna and connectorized for external antenna (2 x SMA), 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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