RADWIN Subscriber Units, SU PRO Model

Subscriber Unit - Data Sheet (RW5000/SU-Pro/5650/F54/ETSI/EMB)



RW-5650-2P54

Product Description

RW-5650-2P54 is SU PRO, Connectorized subscriber unit that delivers up to 50 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 ETSI regulations.

The unit includes an embedded antenna and connectors (2 x SMA) for the high gain slide-on TurboGain antenna. The connectors can be used for 3rd party external antenna.

Product Highlights

- Up to 50 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
- Multiple Antenna configuration: 16dBi embedded antenna, 22dBi antenna when using the TurboGain antenna, and 3rd party external antenna
- 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-66
- Simplified installation using a Smartphone app.



Product Specifications:

Configuration						
Architecture	Outdoor Unit w	rith an embedded	antenna and con	nectos for external antenna (2 x SMA)		
PoE to ODU Interface				r 10/100BaseT and 75m for 1000BaseT		
Radio						
Max Capacity	50 Mbps net ag	50 Mbps net aggregate throughput; Upgradable to 250 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			M/64QAM/256Q			
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						
Uplink / Downlink Allocation	RADWIN POE devices (9921-102X, included in the package) Configurable: Symmetric or Asymmetric					
Layer 2	HUB Mode					
QoS						
VLAN Support	Packet classification to 4 priority queues according to 802.1P or Diffserv 802.1Q, QinQ, 4094 VLANs					
ODU Management 802.1x	IPv4/IPv6 dual-stack; SNMPv1, SNMPv3; HTTP/HTTPS using web browser					
	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	T		I	Ta a		
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, IP66					
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	CISPR 22-2010 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 @ 5.60	GHz	Azimuth @ 5.6GHz			
-50 -60 -70 -80 -90 -110 -120 -130 -140 -150 -160 -170 -180 -170	100 110 120 130 140	-30 -10 0 10 20 30 40 -40 -50 -50 -60 -70 -70 -70 -80 -100 -110 -120 -130 -140 -150 -160 -170 180 170 160 150			

Ordering Info

Part Number: RW-5650-2P54

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.

Datasheet information can be changed by manufacturer without prior notice



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