

RADWIN

SU PRO Connectorized Subscriber Unit

Data Sheet



Product overview

SU PRO connectorized is an outdoor connectorized Subscriber Unit with N-type connectors for external antenna connection, providing up to 500Mbps operating in the 5GHz band.

SU PRO is ideal for business customers requiring SLA connectivity via Committed Information Rate (CIR) service level. SU PRO is interoperable with all RADWIN Sub 6GHz base stations but provides SLA when operating with base stations that support CIR. Four level QoS is provided in all cases.

Two SU PRO can also be used as a Point-to-Point (PtP) link. When SU PRO connects as a remote unit to a RADWIN 2000 Alpha 500Mbps Point-to-Point radio, network TDD synchronization is provided.

SU PRO provides impressive packet switching power that guarantees capacity in short packets traffic. Highly durable, SU PRO complies with the IP 67 standard to reduce truck roll costs.

Product Highlights

- » 250Mbps or 500Mbps PtP subscriber unit
- » 4.9-6.0 GHz
- » Up to 40 km / 25 miles
- » Committed Information Rate (CIR) & best-effort service level
- » Automated installation via mobile app.
- » Interoperable with all RADWIN Base stations
- » Highly durable - IP 67

Product specifications:

Configuration	
Architecture	Outdoor Unit with connectors for external antenna (2 x N-Type)
Wireless Topology	PtMP Subscriber unit, PtP unit
Radio	
Max Capacity	500 Mbps net aggregate throughput (up to 250 Mbps per direction) 250 Mbps net aggregate throughput; upgradable to 500 Mbps with license key
Range	Up to 40 km / 25 miles (in PtMP mode) Up to 80 km / 50 miles (in PtP mode)
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band)
Dynamic Channel BW selection	20/40/80 MHz
Modulation	OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)
Error correction	FEC k = 1/2, 2/3, 3/4, 5/6
Adaptive modulation and Coding	Supported
Duplex technology	TDD
DFS	Supported (see product specific datasheet for details)
Antenna modes	MIMO 2x2 , diversity , adaptive MIMO/diversity
Dynamic Bandwidth management	Committed Information Rate (CIR) and Best Effort service level
Nomadic mode of operation	Supported
Max TX power	26 dBm
Encryption	AES128
TDD intra site synchronization	Supported
Uplink/Downlink allocation	Configurable: Symmetric or Asymmetric
Networking	
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 (for PtMP mode)
Option 82	Supported (for PtMP mode)
DHCP filtering	Supported (for PtMP mode)
IGMP snooping	Supported (for PtMP mode)
PPPoE filtering	Supported (for PtMP mode)
RADIUS authorization	Supported (for PtMP mode)
RADIUS User authentication	Supported
Syslog	Supported

Physical Specification:

Mechanical	
Dimension	19.5 (w) x 12.5 (h) x 4.0 (d)cm / 7.7" (w) x 4.9" (h) x 1.6" (d)
Weight	0.5Kg / 1.1lbs
Power	
Power consumption	<13W
Power feeding	Power provided over ODU-IDU cable
Environmental	
Operating temperature	-35°C to 60°C / -31°F to 140°F
Humidity	100% condensing
Environmental protection	EN/IEC 60529, IP67, NEMA Type 4 Enclosure

Regulatory compliance:

Radio	
USA	FCC 47CFR Part 15.407
Canada	ISED RSS-247
EU	ESTI EN 301 893; ETSI EN 301 502
Safety	
CE/Intl'	EN/IEC 62368-1, EN/IEC 60950-22
USA	cTUVus: UL/CSA-C22.2 62368-1, UL/CSA-C22.2 60950-22
Canada	cTUVus: CSA-C22.2 62368-1, CSA-C22.2 60950-22
EMC	
EU	ETSI EN 301 489-1, EN 301 489-4, 301 489-17
USA	FCC 47CFR Part 15 Subpart B, Class B
Canada	ICES-003, CISPR 32
AS/NZS	CISPR 32 Class B

Supported Bands:

Band	Occupied Bandwidth Support	EIRP[dBm]	Radio Compliance
5.8 GHz FCC/ISED	5.730-5.845 GHz	45	FCC 47CFR Part 15.407, ISED RSS-247
5.4 GHz FCC/ISED	5.480-5.715 GHz	30	FCC 47CFR Part 15.407, ISED RSS-247
5.2 GHz FCC	5.250-5.340 GHz	30	FCC 47CFR Part 15.407, ISED RSS-247
5.1 GHz FCC	5.170-5.250 GHz	42	FCC 47CFR Part 15.407
4.9 GHz Universal	4.900-4.995 GHz	49	Universal
5.1 GHz Universal	5.130-5.375 GHz	50	Universal
5.4 GHz Universal	5.455-5.760 GHz	50	Universal
5.8 GHz Universal	5.725-5.850 GHz	50	Universal
6.0 GHz Universal	5.680-6.090 GHz	50	Universal
5.4 GHz ETSI	5.475-5.710 GHz	30	EN 301 893
5.8 GHz ETSI	5.735-5.865 GHz	36	EN 302 502
5.8 GHz ETSI/GER	5.735-5.865 GHz	36	EN 302 502 and ECC Recommendation (06)04
5.8 GHz WPC	5.150-5.875 GHz	53	WPC (India) G.S.R 1048(E) dated 18 October, 2018 Notification

Product ordering:

500Mbps Subscriber Units

Product Number	Product Name	Regulation	Default Band
RW-5CC5-0P58	RW5000/SU-Pro/5CC5/F58/FCC/EXT	FCC	5.8 GHz
RW-5CC5-2P54	RW5000/SU-Pro/5CC5/F54/ETSI/EXT	ETSI	5.4 GHz
RW-5CC5-4P58	RW5000/SU-Pro/5CC5/F58/WPC/EXT	WPC	5.8 GHz
RW-5CC5-8P58	RW5000/SU-Pro/5CC5/F58/MII/EXT	MII	5.8 GHz
RW-5CC5-9P54	RW5000/SU-Pro/5CC5/F54/UNI/EXT	Universal	5.4 GHz
RW-5CC5-NP58	RW5000/SU-Pro/5CC5/F58/Nigeria/EXT	Nigeria	5.8 GHz

250Mbps Subscriber Units

Product Number	Product Name	Regulation	Default Band
RW-5C01-0P58	RW5000/SU-Pro/5C01/F58/FCC/EXT	FCC	5.8 GHz
RW-5C01-2P54	RW5000/SU-Pro/5C01/F54/ETSI/EXT	ETSI	5.4 GHz
RW-5C01-4P58	RW5000/SU-Pro/5C01/F58/WPC/EXT	WPC	5.8 GHz
RW-5C01-8P58	RW5000/SU-Pro/5C01/F58/MII/EXT	MII	5.8 GHz
RW-5C01-9P54	RW5000/SU-Pro/5C01/F54/UNI/EXT	Universal	5.4 GHz
RW-5C01-NP58	RW5000/SU-Pro/5C01/F58/Nigeria/EXT	Nigeria	5.8 GHz

PoE Units

Part Number	Product Name	Product Description
RW-9921-1039	POE/DC/GBE/24-57	DC input 24VDC -57VDC

Package contents:

Radio unit

Pole mount bands

IP67 Cable gland

AC PoE RW-9921-102X with country specific power cable according to order

Datasheet information can be changed by manufacturer without prior notice