

RADWIN

SU AIR Connectorized

Subscriber Unit

Data Sheet



Product overview

SU AIR connectorized is a 500Mbps outdoor connectorized Subscriber Unit with N-type connectors for external antenna connection, that operates in the 5GHz band. SU AIR is interoperable with all RADWIN base stations.

SU AIR is ideal for residential customers or non-SLA applications. The unit provides four level QoS and ensures a reliable link in congested spectrum and tough path conditions by using RADWIN's field proven air interface. SU AIR channel bandwidth is dynamically selected, separately per transmission or reception direction, guaranteeing maximum link capacity.

SU AIR provides impressive packet switching power to guarantee capacity in short packets traffic.

Highly reliable, SU AIR complies with the IP 67 standard to reduce truck roll costs.

Product Highlights

- » Up to 500Mbps PtMP subscriber unit
- » 4.9-6.0 GHz
- » Up to 40 km / 25 miles
- » 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
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)
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	Best Effort service level
Max TX power	26 dBm
Encryption	AES128
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
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
5.1 GHz Unified Universal	5.125-5.880 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

Product ordering:

500Mbps Subscriber Units

Product Number	Product Name	Regulation	Default Band
RW-5CC5-0A58	RW5000/SU-Air/5CC5/F58/FCC/EXT	FCC	5.8 GHz
RW-5CC5-1A54	RW5000/SU-Air/5CC5/F58/IC/EXT	ISED	5.8 GHz
RW-5CC5-2A54	RW5000/SU-Air/5CC5/F54/ETSI/EXT	ETSI	5.4 GHz
RW-5CC5-9A50	RW5000/SU-Air/5CC5/F54/UNI/EXT	Universal	5.4 GHz
RW-5CC5-NA58	RW5000/SU-Air/5CC5/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