RADWIN SU-PRO 50 Series

Subscriber Unit - Data Sheet (RW5000/SU-Pro/5H50/F58/FCC/INT)

RW-5H50-0P58

Product Description

RW-5H50-0P58 is SU PRO, Integrated subscriber unit that delivers up to 50 Mbps net aggregate throughput and supports SLA (CIR) or Best-Effort service level.
SU PRO supports 5.1 to 5.8 GHz and complies with FCC/IC & FCC regulations.
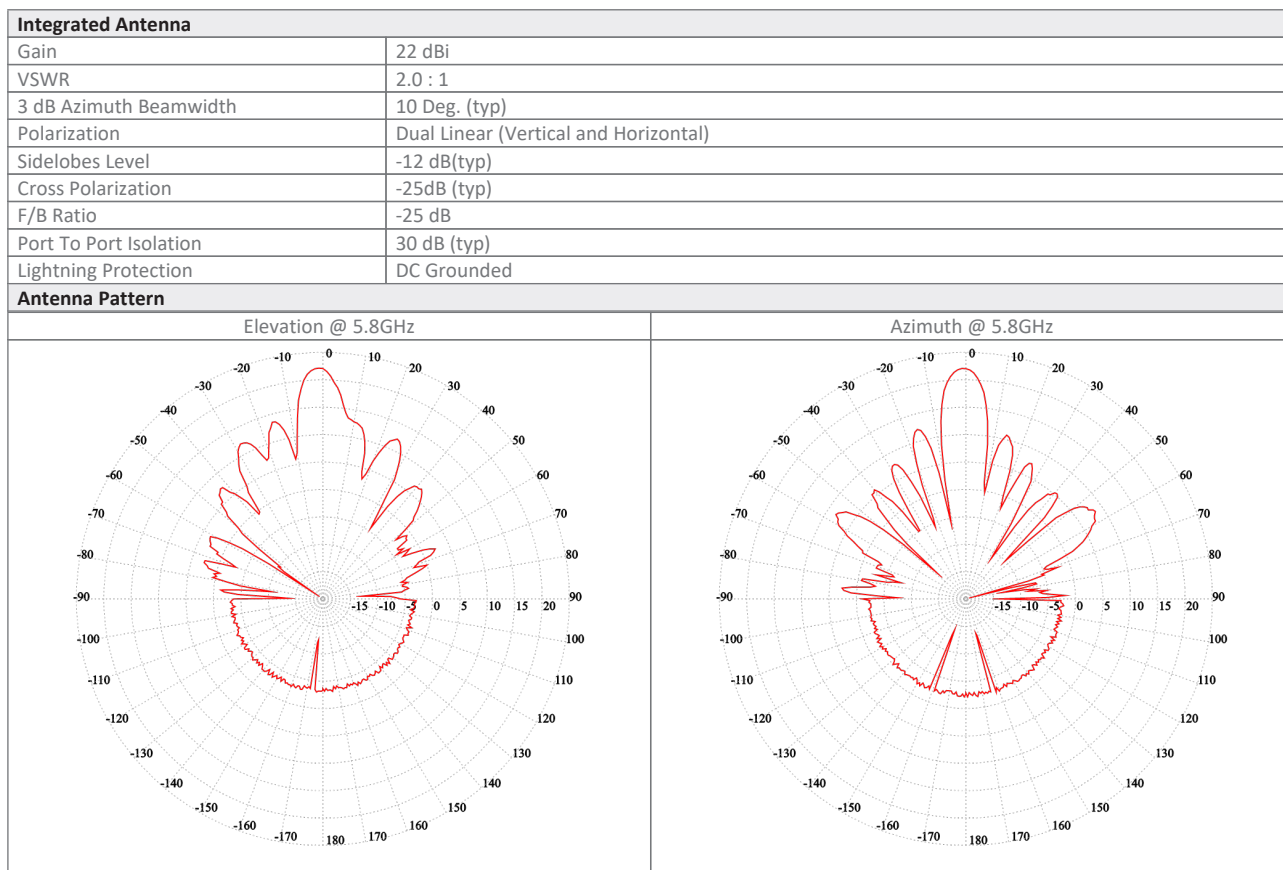The unit includes an integrated 22dBi antenna.

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
- 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.

RADWIN

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	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	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)
Adaptive Modulation & Coding	Supported
DFS	Supported (FCC)
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
802.1x	Supported
Option 82	Supported
Non PPPoE filtering	Supported
DHCP Filter	Supported
IGMP snooping	Supported
Nomadic support	Supported
RADIUS Authorization	Supported
RADIUS User authentication	Supported
Syslog	Supported
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
5.8 GHz FCC/IC (default)	5.730-5.845	5.730-5.845	5.730-5.845	5.730-5.845	FCC 47CFR Part 15.407; ISED RSS-247
5.1 GHz FCC	5.170-5.250	5.170-5.250	5.170-5.250	5.170-5.250	FCC 47CFR Part 15.407
5.2 GHz FCC	-	5.255-5.340	5.255-5.340	5.250-5.340	FCC 47CFR Part 15.407
5.4 GHz FCC	-	5.480-5.715	5.480-5.715	5.485-5.715	FCC 47CFR Part 15.407
5.1 GHz FCC	5.170-5.845	5.170-5.845	5.170-5.845	5.170-5.845	FCC 47CFR Part 15.407

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	<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	
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

RADWIN

Integrated Antenna

Gain	22 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 @ 5.8GHz	Azimuth @ 5.8GHz

Ordering Info

Part Number: RW-5H50-0P58

Description: RADWIN SU-PRO 50 ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz FCC/IC.

Datasheet information can be changed by manufacturer without prior notice

RADWIN