RADWIN Subscriber Units, SU PRO Model

Subscriber Unit - Data Sheet (RW5000/SU-Pro/5HC5/F58/FCC/INT)



RW-5HC5-0P58

Product Description

RW-5HC5-0P58 is SU PRO Model, subscriber unit that delivers up to 500 Mbps net aggregate throughput and supports SLA (CIR) or Best-Effort service level.
Can be used in a P2P configuration SU PRO supports 4.9 to 5.8 GHz and complies with FCC/IC & FCC regulations.
The unit includes an integrated 22dBi antenna.

Product Highlights

- Up to 500 Mbps net aggregated throughput
- 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.



Product Specifications:

Configuration						
Architecture	Outdoor Unit with an integrated antenna					
PoE to ODU Interface	Outdoor Only with an integrated afternia Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT					
Radio	Outdoor CAT 30, Maximum cable length. 100111101 10/1000a361 and 73111101 1000ba361					
Max Capacity	500 Mbps net aggregate throughput (up to 250 Mbps per direction)					
Range	Up to 40 km / 25 miles *					
Channel Bandwidth						
Modulation	Configurable: 10, 20, 40, 80 MHz (for the default band) MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)					
Adaptive Modulation & Coding	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) Supported					
Automatic Channel Selection	Supported upon power up					
DFS	Supported upon power up Supported (FCC/IC, FCC)					
Diversity						
Max Tx Power	Supported 26 dBm per chain					
Duplex Technology	26 dBm per chain					
Error Correction	TDD					
	FEC k = 1/2, 2/3, 3/4, 5/6					
Encryption	AES 128 (Supports AES 256 in PtP mode)					
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		1				
	CBW 10MHz				Padia Compliance	
Band	1	CBW 20MHz [GHz]	CBW 40MHz	CBW 80MHz	Radio Compliance	
	[GHz]	[GHz]	[GHz]	[GHz]		
4.9 GHz FCC/IC 5.1 GHz FCC	1			[GHz]	FCC 47CFR Part 90 Subpart Y; ISED RSS-111	
4.9 GHz FCC/IC	[GHz] 4.940-4.990 5.170-5.250	[GHz] 4.940-4.990 5.170-5.250	[GHz] 4.940-4.990 5.170-5.250	[GHz] - 5.170-5.250	FCC 47CFR Part 90 Subpart Y; ISED RSS-111 FCC 47CFR Part 15.407	
4.9 GHz FCC/IC 5.1 GHz FCC 5.1 GHz FCC	[GHz] 4.940-4.990	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845	[GHz] - 5.170-5.250 5.170-5.845	FCC 47CFR Part 90 Subpart Y; ISED RSS-111 FCC 47CFR Part 15.407 FCC 47CFR Part 15.407	
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4.9 GHz FCC/IC 5.1 GHz FCC 5.1 GHz FCC 5.2 GHz FCC/IC 5.4 GHz FCC 5.8 GHz FCC/IC (default) Mechanical ODU Dimensions ODU Weight Mounting Kit Power Power Feeding Power Consumption Network Device AC POE DC POE Package Content	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845 5.730-5.845 32.5(w) x 32.5(h 2 kg / 4.41 lbs Included Power provided <13W RW-9921-102x RW-9921-2069	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845 5.255-5.340 5.480-5.715 5.730-5.845 a) x 6.7(d) cm	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845 5.255-5.340 5.480-5.715 5.730-5.845	[GHz] - 5.170-5.250 5.170-5.845 5.250-5.340 5.485-5.715 5.730-5.845	FCC 47CFR Part 90 Subpart Y; ISED RSS-111 FCC 47CFR Part 15.407 FCC 47CFR Part 15.407; ISED RSS-247	
4.9 GHz FCC/IC 5.1 GHz FCC 5.1 GHz FCC 5.2 GHz FCC/IC 5.4 GHz FCC 5.8 GHz FCC/IC (default) Mechanical ODU Dimensions ODU Weight Mounting Kit Power Power Feeding Power Consumption Network Device AC POE DC POE Package Content Package	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845 5.730-5.845 32.5(w) x 32.5(h 2 kg / 4.41 lbs Included Power provided <13W RW-9921-102x RW-9921-2069	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845 5.255-5.340 5.480-5.715 5.730-5.845 a) x 6.7(d) cm	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845 5.255-5.340 5.480-5.715 5.730-5.845	[GHz] - 5.170-5.250 5.170-5.845 5.250-5.340 5.485-5.715 5.730-5.845	FCC 47CFR Part 90 Subpart Y; ISED RSS-111 FCC 47CFR Part 15.407 FCC 47CFR Part 15.407 FCC 47CFR Part 15.407 FCC 47CFR Part 15.407	
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4.9 GHz FCC/IC 5.1 GHz FCC 5.1 GHz FCC 5.2 GHz FCC/IC 5.4 GHz FCC 5.8 GHz FCC/IC (default) Mechanical ODU Dimensions ODU Weight Mounting Kit Power Power Feeding Power Consumption Network Device AC POE DC POE Package Content Package Environmental Operating Temperatures Humidity	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845 5.730-5.845 32.5(w) x 32.5(t) 2 kg / 4.41 lbs Included Power provided <13W RW-9921-102x RW-9921-2069 Radio unit with -35°C to 60°C / 100% condensing	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845 5.255-5.340 5.480-5.715 5.730-5.845 a) x 6.7(d) cm I over ODU-IDU ca (included) integrated anten -31°F to 140°F ng, IP67 (totally p	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845 5.255-5.340 5.480-5.715 5.730-5.845 able	[GHz] - 5.170-5.250 5.170-5.845 5.250-5.340 5.485-5.715 5.730-5.845	FCC 47CFR Part 90 Subpart Y; ISED RSS-111 FCC 47CFR Part 15.407 FCC 47CFR Part 15.407; ISED RSS-247	
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4.9 GHz FCC/IC 5.1 GHz FCC 5.1 GHz FCC 5.2 GHz FCC/IC 5.4 GHz FCC 5.8 GHz FCC/IC (default) Mechanical ODU Dimensions ODU Weight Mounting Kit Power Power Feeding Power Consumption Network Device AC POE DC POE Package Content Package Environmental Operating Temperatures Humidity MTBF Wind Resistance operational Safety	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845 5.730-5.845 32.5(w) x 32.5(h 2 kg / 4.41 lbs Included Power provided <13W RW-9921-102x RW-9921-2069 Radio unit with -35°C to 60°C / 100% condensin 4,075,000 hours 180Km/h	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845 5.255-5.340 5.480-5.715 5.730-5.845 a) x 6.7(d) cm I over ODU-IDU ca (included) integrated anten -31°F to 140°F ng, IP67 (totally ps s (Telcordia SR33)	[GHz] 4.940-4.990 5.170-5.250 5.170-5.845 5.255-5.340 5.480-5.715 5.730-5.845 able ma, pole/wall moderated against of 2 @25°C)	[GHz] - 5.170-5.250 5.170-5.845 5.250-5.340 5.485-5.715 5.730-5.845	FCC 47CFR Part 90 Subpart Y; ISED RSS-111 FCC 47CFR Part 15.407 FCC 47CFR Part 15.407; ISED RSS-247	
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Integrated Antenna					
Gain	22 dBi				
Detailed Gain	22.0 +/- 1.0 dBi				
VSWR	2.0:1				
3 dB Azimuth Beamwidth	10 Deg. (Typ)				
3 dB Elevation Beamwidth	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			
-100 -110 -120 -130 -140	30 40 50 60 70 80 80 115 -10 3 0 5 10 15 20 90 100 110 120 130 140	-40 -50 -60 -70 -80 -100 -110 -120 -130 -140 -150 -160 -170 -180 -170 -180 -170 -160 -170 -180 -170 -160 -170 -180 -170 -180 -170 -180 -170 -180 -180 -180 -180 -180 -180 -180 -18			

Ordering Info

Part Number: RW-5HC5-0P58

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

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

Datasheet information can be changed by manufacturer without prior notice

