

## RADWIN Subscriber Units, SU AIR Model

Subscriber Unit - Data Sheet (RW5000/SU-Air/5HC5/F54/ETSI/INT)



RW-5HC5-2A54

### Product Description

RW-5HC5-2A54 is SU AIR Model, subscriber unit that delivers up to 500 Mbps net aggregate throughput and supports Best-Effort service level.

SU AIR supports 5.4 to 5.8 GHz and complies with ETSI regulations.

The unit includes an integrated 22dBi antenna.

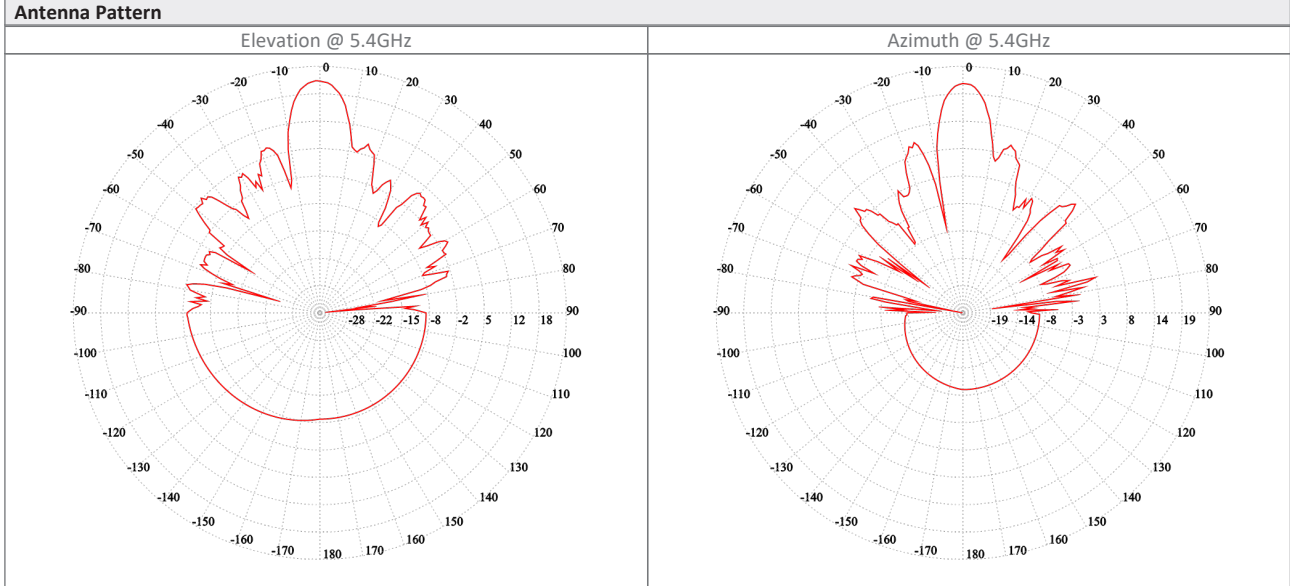
### Product Highlights

- Up to 500 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- 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:

<b>Configuration</b>				
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			
<b>Radio</b>				
Max Capacity	500 Mbps net aggregate throughput (up to 250 Mbps per direction)			
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band)			
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)			
Adaptive Modulation & Coding	Supported			
DFS	Supported (ETSI)			
Diversity	Supported			
Max Tx Power	26 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	RADWIN PoE devices (9921-102X, included in the package)			
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			
<b>Supported Bands</b>				
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
<b>Mechanical</b>				
ODU Dimensions	32.5(w) x 32.5(h) x 6.4(d) cm			
ODU Weight	2 kg / 4.41 lbs			
<b>Power</b>				
Power Feeding	Power provided over ODU-IDU cable			
Power Consumption	<13W			
<b>Environmental</b>				
Operating Temperatures	-35°C to 60°C / -31°F to 140°F			
<b>Safety</b>				
EU/Intl	EN/IEC 62368-1, EN/IEC 60950-22			
USA	cTUVus: UL 60950-1, UL 60950-22			
<b>EMC</b>				
FCC	FCC 47 CFR, Part15, Subpart B, Class B			
ETSI	ETSI EN 301 489-1, ETSI EN 301 489-4, ETSI 301 489-17			
Canada	ICES-003, CISPR 32, Class B			
AS/NZS	CISPR 32, Class B			

Integrated Antenna	
Gain	21 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



**Ordering Info**

Part Number: RW-5HC5-2A54

Description: RADWIN SU AIR ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz ETSI.

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

Datasheet information can be changed by manufacturer without prior notice



Corporate Headquarters, T. +972.3.766.2900, E. sales@radwin.com, www.radwin.com  
 HaBarzel St 27, Tel Aviv-Yafo, Israel

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