

## **RADWIN HPMP JET AIR Series**

Sector Base Station - Data Sheet (RW5000/HBS-Air/5AC5/F58/FCC/JET/INT)



**RW-5AC5-0658**

### **Product Description**

RW-5AC5-0658 is a sector Base Station radio unit (HBS) that provides up to 500 Mbps net aggregate throughput while delivering access connectivity for up to 64 Subscriber Units (HSU).

RW-5AC5-0658 supports 4.9 to 5.8 GHz and complies with FCC & FCC/IC regulations. The radio comes with a smart beamforming integrated antenna with embedded GPS.

### **Product Highlights**

- Base station with smart beamforming antenna
- Up to 500 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Supports up to 64 HSUs
- Best Effort Service
- Exceptional short and constant latency
- Single radio supporting multiple bands
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable operation in harsh conditions, extreme temperatures and non line-of-sight scenarios
- Ease of operation and maintenance

## Product Specifications:

<b>Configuration</b>					
Architecture	Outdoor Unit with a smart beamforming integrated antenna with embedded GPS				
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				
Subscriber Units (HSUs) support	Up to 64 HSUs				
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band)				
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Adaptive Modulation, Coding & Channel BW	Supported				
Smart Bandwidth Management (DBA)	Supported				
DFS	Supported (FCC)				
Diversity	Supported				
Max Tx Power	25 dBm; max EIRP 36 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 (RW-9921-101X)				
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric				
End to End Latency	Typical: 3.5msec @ 2 HSUs; 20msec @ 64 HSUs				
Layer 2	Bridging learning of 5K MAC addresses				
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv				
VLAN Support	802.1Q, QinQ, 4094 VLANs				
TDD Intra Site Synchronization	Supported				
ODU Management	IPv4/IPv6 dual-stack; SNMP v1 and v3; HTTP using web browser				
Option 82	Supported				
RADIUS Authorization	Supported				
RADIUS User authentication	Supported				
Syslog	Supported				
<b>Supported Bands</b>					
Band	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	Radio Compliance
5.4 GHz FCC	-	5.480-5.715	5.480-5.715	5.485-5.715	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
5.8 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; ISD 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
4.9 GHz FCC/IC	4.940-4.990	4.940-4.990	-	-	FCC 47CFR Part 90 Subpart Y; IC RSS-111
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
<b>Mechanical</b>					
ODU Dimensions	35.6(w) x 22.5(h) x 9.4(d) cm				
ODU Weight	3.3 kg / 7.28 lbs				
<b>Power</b>					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<30W				
<b>Environmental</b>					
Operating Temperatures	-35°C to 60°C / -31°F to 140°F				
<b>Safety</b>					
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				
<b>EMC</b>					
FCC	47 CFR, Part 15, Subpart B, Class B				
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4				
CAN/CSA-CEI/IEC	CISPR 22-2010 Class B				

Integrated Antenna	
Gain	20 dBi
VSWR	2.0 : 1
3 dB Azimuth Beamwidth	90 Deg. (Typ)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	-12 dB(typ)
Cross Polarization	-30dB (typ)
F/B Ratio	-25 dB
Port To Port Isolation	35 dB (typ)
Lightning Protection	DC Grounded

**Ordering Info**

**Part Number:** RW-5AC5-0658

**Description:** RADWIN JET AIR ODU, with a smart beamforming integrated antenna with embedded GPS, 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