RADWIN JET-DUO Series

Dual band 3.x & 5.x GHz Base Station

RW-5PG5-9635



Product Description

RW-5PG5-9635 is a sector Base Station unit (HBS) that includes two radios (3.x GHz and 5.x GHz) in a single unit. The unit provides up to 750 Mbps net aggregate throughput per band (the operational band is user configurable).

The unit will be able to provide up to 2x750 Mbps simultaneously from both bands through future software upgrade.

RW-5PG5-9635 includes one smart beamforming antenna for each band. It also includes an embedded GPS unit.

RW-5PG5-9635 supports 3.x GHz and 5.x GHz Universal and FCC bands.

Product Highlights

- Dual band base station radio with smart beamforming antennas supporting 3.x GHz and 5.x GHz band.
- Up to 750 Mbps net aggregated throughput
- Configurable operating band: 3.X GHz or 5.X GHz
- Long range Up to 40 km / 25 miles
- Supports up to 64 HSUs
- CIR or Best-Effort per HSU/SU
- Built-in GPS
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable operation in harsh environments
- Ease of operation



Product Specifications:

Configuration			
Architecture	Outdoor unit with a smart beamformin	g integrated antenna	
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable lengt		
Data Interfaces	1000BaseT (over PoE) or SFP (1GbE, supports single and multi-mode)		
Radio General			
Max capacity	750 Mbps net aggregate throughput		
Subscriber Units support	Up to 64		
Range	Up to 40 km / 25 miles		
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)		
Adaptive Modulation & Coding	Supported		
Smart Bandwidth Management	Supported		
(DBA)	Supported		
Diversity	Dynamic selection between MIMO and Diversity		
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-9921-104x)		
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		
TDD Inter Site Synchronization	Supported through built-in GPS receiver		
ODU Management	IPv4/IPv6 dual-stack; SNMP v1 and v3; HTTP using web browser		
3.5GHz RADIO			
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz		
Max EIRP	Configurable: 10, 20, 40, 80 MHz Max EIRP 44 dBm		
Supported band			
Supported Bands	Band	Radio Compliance	
3.5 GHz	3.400 – 3.800GHz	Universal	
5GHz RADIO			
Channel Bandwidth	Configurable: 10, 20, 40 ,80 MHz (for the default band)		
DFS	NA		
Max EIRP	Max EIRP 44dBm		
Supported 5GHz Bands			
Supported Bands	Band	Radio Compliance	
4.9 GHz Universal	4.900-4.990 GHz Universal	Universal	
5.1 GHz Universal	5.150-5.335 GHz Universal	Universal	
5.4 GHz Universal (default)	5.475-5.720 GHz Universal	Universal	
5.8 GHz Universal	5.730-5.845 GHz Universal	Universal	
5.8 GHz FCC/IC	5.730-5.845 GHz FCC/IC	FCC 47CFR Part 15.247	
5.9 GHz Universal	5.730-5.950 GHz Universal	Universal	
Mechanical –			
ODU Dimensions	35.6(w) x 37.1(h) x 9.5(d) cm		
ODU Weight	4.5Kg / 9.92 lbs		
Power			
Power Feeding	Power provided over ODU-IDU-POE cable		
Power Consumption	<55W		
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, 301 489-17		
CAN/CSA-CEI/IEC	CISPR 22-2010 Class B		
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Integrated Antenna 3.5GHz		
Gain	16 dBi	
VSWR	2.0:1	
3 dB Azimuth Beamwidth	90 Deg.(typ)	
Polarization	Dual Linear (Vertical and Horizontal)	
Sidelobes Level	-10dB(typ)	
Cross Polarization	-25dB(typ)	
F/B Ratio	-25dB	
Port To Port Isolation	35dB(typ)	
Lightning Protection	DC Grounded	

Integrated Antenna 5GHz		
Gain	19 dBi	
VSWR	2.0:1	
3 dB Azimuth Beamwidth	90 Deg.(typ)	
Polarization	Dual Linear vertical and Horizontal	
Sidelobes Level	-20dB(typ)	
Cross Polarization	-30dB(typ)	
F/B Ratio	-25dB	
Port To Port Isolation	35dB(typ)	
Lightning Protection	DC grounded	

Ordering Info

Part Number: RW-5PG5-9635

Description: RADWIN Dual band 3.x & 5.xGHz Base Station ODU, with a smart beamforming integrated antennas and built in GPS.

