ComX Computers
Product Specification Sheet

RW-5JA1500-54-INT

Radwin Jet Air Duo 5GHz 1500 Mbps PtMP Base Station

Product Overview

Radwin Jet Air Duo 5GHz 1500 Mbps PtMP Base Station, RW-5NG6-U650, Smart beamforming antenna with Embedded GPS, Supports multiple bands (Default 5.4GHz Universal), 4.9GHz - 6GHz Frequency range, Gigabit Ethernet Port, SFP Port, Up to 40 km range, 18 dBi gain beamforming antenna Array 4th Generation, Dual Linear Polarization







Specifications

Overview:

- JET AIR DUO: Up to 1.5 Gbps
- JET AIR: Up to 750 Mbps
- Beamforming antenna for best interference mitigation
- 4.9 GHz - 6.0 GHz
- Long range - Up to 40 km / 25 miles
- Up to 64 /128 SUs in JET AIR / JET AIR DUO
- Ethernet and SFP data interface
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable operation in harsh conditions, extreme temperature, and near- line-of-sight scenarios
- GPS-based regulation identification

Features:

RADWIN JET AIR and JET AIR DUO are single- carrier and dual-carrier base station radio units (HBS) that offer up to 750 Mbps and 1.5 Gbps net throughput, respectively. These units can connect up to 64 and 128 Subscriber Units (SUs), respectively.

These base stations operate in the 4.9 to 6.0 GHz frequency range and feature 15 degrees beamforming antenna steered over 90 degrees, with exceptionally low sidelobe level for optimal interference immunity. Additionally, the units include built-in GPS for TDD synchronization and collocation.

JET AIR units are compatible with all RADWIN 5GHz SUs and RADWIN 2000 Alpha units.

Specifications:

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Specifications	
Product Code	RW-5JA1500-54-INT
Configuration	
Architecture	Outdoor Unit with a beamforming integrated antenna with embedded GPS
Wireless topology	PtMP base station
Data interfaces	10/100/1000 Mbps RJ45 PoE, 1Gbps SFP
POE and ODU interfaces	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT
Radio	JET AIR DUO -:- JET AIR
Max capacity	1.5 Gbps (2x 750 Mbps) net -:- 750 Mbps net aggregate
	aggregate throughput* -:- throughput
Maximum Subscriber Units	Up to 128 (64 per carrier) -:- Up to 64
Range	Up to 40 km / 25 miles
Frequency Range	4.900 GHz - 6.000 GHz
Channel bandwidth	Configurable: 10, 20, 40, 80 MHz
Dynamic Channel bandwidth selection	20/40/80 MHz
Multiplexing, Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)
Error correction	FEC k = 1 / 2, 2 / 3, 3 / 4, 5/6
Adaptive modulation and Coding	Supported
Smart Bandwidth Management (DBA)	Supported
DFS	Supported
Duplex technology	TDD
Antenna modes	MIMO 2x2, diversity, adaptive MIMO/diversity
Dynamic Bandwidth management	Best Effort service level
Max TX power	24 dBm per chain
Encryption	AES128

TDD synchronization	Supported via built-in GPS / GNSS receiver
Uplink/Downlink TDD ratio	Configurable: Symmetric or Asymmetric
Networking	
Sub convergence layer	Layer 2, Bridging learning of 8K MAC addresses
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
MTU	Up to 2047
802.1x	Supported
DHCP Option 82	Supported
DHCP filtering	Supported
IGMP snooping	Supported
PPPoE filtering	Supported
RADIUS Authorization	Supported
RADIUS user authentication	Supported
Syslog	Supported
IGMP snooping	Supported
Integrated Antenna	
Type	Beamforming Antenna Array 4th Generation
Gain	18 dBi
VSWR	
3 dB Azimuth beamwidth	15 deg beam (steered over 90 deg sector)
3 dB Elevation Beamwidth	20 deg
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes suppression	22 dB (typical)
Cross polarization	20 dB (typical)
F/B Ratio	40 dB (typical)
Port To Port isolation	>25 dB (typical)

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/RW-5JA1500-54-INT-Radwin-Jet-Air-Duo-5GHz-1500-Mbps-PtMP-Base-Station-p-305219.php

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