



PTP 250 (5 GHz)

Our Point-to-Point (PTP) 200 Series Wireless Ethernet Solutions are designed to give you high-throughput, reliable broadband communications on a tight budget. With a PTP 200 Series solution, enterprises, government organizations and service providers with limited resources can establish and extend backhaul communications affordably.

Meeting Your Needs

Our PTP 5X250 is a dual-band radio operating in the 5.4 and 5.8 GHz license-exempt bands. PTP 5X250 systems offer data rates up to 256 Mbps, and a very high packet-processing speed of 234,000 PPS which gives excellent throughput with small packets, making it ideal for applications such as video surveillance, Voice-over-IP and streaming video content.
 • Enhanced radar-detection algorithms prevent radio outages due to false radar detection events, which is a common problem for radio systems in regions where radar detection is mandated.
 • All of these features of PTP 5X250 give a robust, high-speed wireless link with a very compelling price-per-megabit.

SPECIFICATIONS

PRODUCT	
MODEL NUMBER	C054025B001A through C054025B008A AUWB3716AA, AUWB3718AA
SPECTRUM	
FREQUENCY RANGE	5.470 GHz – 5.850 GHz
CHANNEL WIDTH	Configurable 20 or 40 MHz
CHANNEL SELECTION	Automatic selection on start-up, with manual override
INTERFACE	
PHYSICAL LAYER	Distance between outdoor unit and primary network connection: up to 330 ft. (100 meters)
MAC (MEDIA ACCESS CONTROL) LAYER	Proprietary
ETHERNET INTERFACE	1000 Base T (RJ-45), auto MDI/MDIX
PROTOCOLS USED	OFDM
NETWORK MANAGEMENT	Web access via browser; SNMP v2c using MIBII and proprietary PTP MIB
VLAN	802.1ad (DVLAN Q-in-Q), 802.1Q with 802.1p priority, dynamic port VID
PERFORMANCE	
ARQ	ARQ, FEC
MAXIMUM AGGREGATE THROUGHPUT	Up to 256 Mbps (40 MHz Channel) Up to 112 Mbps (20 MHz Channel)
LATENCY	4 ms round trip
PACKETS PER SECOND	234,000
MODULATION TYPE	Dynamic; adapting between BPSK and 64 QAM with single and dual payload
LINK BUDGET	
ANTENNA BEAM WIDTH	Integrated flat plate 23 dBi / 7° Connectorized: Can operate with a selection of separately-purchased single and dual polar antennas through 2 x N-type female connectors

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MAXIMUM TRANSMIT POWER	Up to 22 dBm; varies with modulation mode and settings.
DEPLOYMENT RANGE	20 MHz Channel – Up to 34 mi (54 km) 40 MHz Channel – Up to 17 mi (27 km)
SENSITIVITY (dBm typical)	Adaptive, varying between -93 dBm and -71 dBm
PHYSICAL	
ANTENNA CONNECTION	Integrated flat plate 23 dBi / 7° Connectorized: Can operate with a selection of separately-purchased single and dual polar antennas through 2 x N-type female connectors
TEMPERATURE	-40° to +140° F (-40° to +60° C), including solar radiation
WEIGHT	Integrated ODU: 12.1 lbs (5.5 kg) including bracket Connectorized ODU: 9.1 lbs (4.3 kg) including bracket PoE Power Supply: 0.83 lbs (378 g)
WIND SURVIVAL	150mph (240 kph)
DIMENSIONS (HxWxD)	Integrated ODU: 37 x 37 x 9.5 cm (14.5" x 14.5" x 3.75") Connectorized ODU: 31 x 31 x 10.5 cm (12.2" x 12.2" x 4.1") PoE Power Supply: 5 x 16.5 x 8.8 cm (6.5" x 2.0" x 3.5")
MAXIMUM POWER CONSUMPTION	35 W
SECURITY	
ENCRYPTION	Proprietary encryption; FIPS 197 128-bit AES Encryption
CERTIFICATIONS	
INDUSTRY CANADA CERT	109A0 - 5X250
FCC ID	QWP5X250
CE	EN 301 893, EN 302 502