

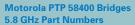
MOTOROLA POINT-TO-POINT BROADBAND WIRELESS SOLUTIONS

MOTO**WI**

Motorola Point-to-Point Bridges – PTP 400 Series







BP5730BH-2BB Integrated
BP5730BHC-2BB Connectorised
BP5730BH20-2BB Integrated Lite
BP5730BHC20-2BB Connectorised Lite

Motorola PTP 54400 Bridges 5.4 GHz Part Numbers

BP5430BHC-2AA Integrated
BP5430BHC-2AA Connectorised
BP5430BH20-2AA Integrated Lite
BP5430BHC20-2AA Connectorised Lite

Motorola PTP 49400 Bridges 4.9 GHz Part Numbers

WB2623 Integrated
WB2624 Connectorised
WB2627 Integrated Lite
WB2628 Connectorised Lite



High Availability Wireless Ethernet Bridges

Operating in the 5.8 GHz, 5.4 GHz and 4.9 GHz (public safety) bands at data rates up to 43 Mbps, Motorola's PTP 400 Series solutions out-perform comparable wireless systems by maintaining up to 99.999% availability even in non-line-of-sight environments, across long distances, through high-interference areas, over open terrain or water and through extreme weather conditions.

Through Motorola's unique combination of technologies, the systems offer a wireless alternative to remove network bottlenecks, improve communications reliability and increase performance - at less cost than comparable wire-line solutions.

The PTP 400 Series bridges are incorporated in Motorola's **MOTO**wi4[™] portfolio of innovative wireless broadband solutions that create, complement and complete IP networks. Delivering IP coverage to virtually all spaces, the **MOTO**wi4 portfolio includes Fixed Broadband, WiMAX, Mesh, and Broadband over Powerline solutions for private and public networks.

Technical Specifications for the MOTOROLA POINT-TO-POINT BRIDGES - 400 SERIES

RADIO TECHNOLOGY	REMARKS
RF band	5.725 GHz-5.850 GHz* 5.470 GHz-5.725 GHz* 4.945, 4.955, 4.965, 4.975, 4.985 GHz*
Channel size	5.8 and 5.4 GHz : 12 MHz 4.9 GHz : 10 MHz
Channel selection/dynamic frequency control	
Transmit power control	Adaptive, varying between 25 dBm and -10 dBm according to modulation selected and radio path**
System gain	5.8 and 5.4 GHz Integrated: Varies with modulation mode; up to 168 dB with 23.5 dBi integrated antenna** 4.9 GHz Integrated: Varies with modulation mode; up to 163 dB** Connectorised: Varies with modulation mode and antenna type**
Receiver sensitivity	Adaptive, varying between -96.0 dBm and -72 dBm according to modulation selected
Modulation	Dynamic; 8 modes adapting between BPSK and 64 QAM
Error correction	FEC, ARQ
Duplex scheme	TDD ratio 50:50, 66:33; same or split frequency Tx/Rx
Antenna: type/gain/B/W	Integrated: Integrated flat plate 23 dBi / 7° Connectorised: Approved to operate with flat plate up to 28 dBi or parabolic dish up to 37.7 dBi; connected via 2 x N-type female
Range	Up to 200 km (124 miles)***
Data rates	 5.8 and 5.4 GHz: Up to 43 Mbps at the Ethernet; dynamically variable with modulation range from 3.0 Mbps to 43 Mbps (aggregate) 5.8 and 5.4 GHz Lite: Up to 21 Mbps at the Ethernet; dynamically variable with modulation range from 1.5 Mbps to 21 Mbps (aggregate) 4.9 GHz: Up to 35 Mbps at the Ethernet 4.9 GHz Lite: Up to 17 Mbps at the Ethernet
Security and encryption	Proprietary scrambling mechanism; optional AES 128 Bit Encryption * Regulatory conditions for RF bands should be confirmed prior to system purchase ** Gain and maximum transmit power may vary based on regulatory domain *** In all cases the range limit is set by the latest software release
ETHERNET BRIDGING	REMARKS
Protocol	IEEE 802.3
Packet prioritisation	IEEE 802.1p
Interface	10 BASE-T / 100 BASE-T (RJ-45)-auto MDI/MDIX switching
Latency	Throughput Mode: Less than 7 mSec (default) Latency Mode: Less than 6 mSec
MANAGEMENT & INSTALLATION	REMARKS
LED indicators	Power status, Ethernet link status and activity
System management	Web Server and SNMP
Installation	Built-in audio assistance for link optimisation
Connection	Distance between outdoor unit and primary network connection: up to 100 metres (330')
PHYSICAL	REMARKS
Dimensions	Integrated outdoor unit (ODU): Width 370 mm (14.5"), Height 370 mm (14.5"), Depth 95 mm (3.75") Connectorised ODU: Width 305 mm (12"), Height 305 mm (12"), Depth 105 mm (4.1") Powered indoor unit (PIDU Plus): Width 250 mm (9.75"), Height 40 mm (1.5"), Depth 80 mm (3")
Weight	Integrated ODU: 5.5 kg (12.1 lbs) including bracket Connectorised ODU: 4.3 kg (9.1 lbs) including bracket PIDU Plus: 864 g (1.9 lbs)
Wind speed	242 kph (150 mph)
Power supply	Integrated with Indoor Unit
Power source	90–240 VAC, 50–60 Hz / 36-60V DC
Power consumption	55 W max
ENVIRONMENTAL & REGULATORY	REMARKS
Operating temperature	-40° C (-40° F) to +60°C (+140°F), including solar radiation
Protection and safety	IP65/ UL60950; IEC60950; EN60950; CSA-C22.2 No. 60950
Radio	5.8 GHz: FCC Part 15, sub-part C 15.247, Eire ComReg 03/42, UK Approval to IR2007 5.4 GHz: EN 301 893
FMC	4.9 GHz: FCC Part 90
EMC	USA-FCC Part 15, Class B; Europe-EN 301 489-4



For more information about the Motorola Point-to-Point Solutions:

Outside of North America: +44 1364 655500 In North America: +1 877 515-0400

www.motorola.com/ptp