



MOTOROLA WIRELESS BROADBAND

PTP 49200 Bridge

Cost-effective 4.9 GHz point-to-point solutions

Public safety is one of the most critical issues for today's communities. However, with the majority of municipalities having populations of less than 5,000, budget constraints present a significant challenge to many small cities. In addition, recent economic trends have dramatically reduced the operating revenue upon which local and county governments of all sizes depend to protect people and property. As a result, most cities, towns and counties are grappling with how to keep their communities safe, given the resources available to them.

PTP 49200 – Affordable Wireless Broadband

Motorola's PTP 49200 Point-To-Point Wireless Ethernet Bridges are designed to fill the need for reliable, high-quality broadband connectivity at a cost that fits even the tightest budgets. Operating in the 4.9 GHz* licensed band at Ethernet data rates up to 21 Mbps, PTP 49200 solutions can support police officers, fire fighters, emergency medical teams (EMTs), 911 centers and other public safety officials with vital communications such as:

- High-speed Internet access to mug shots, DMV records, medical files, missing-person images, evacuation routes, fire hydrant locations and road closures
- Voice-over-IP (VoIP) and multimedia
- Video surveillance

- T1/E1 leased line replacement
- Cost-effective traffic backhaul
- Building-to-building and remote connectivity

Reliable Wireless Coverage

PTP 49200 bridges are designed to securely transport your data, voice and video communications in near-line-of-sight (nLOS) and line-of-sight (LOS) environments. With Orthogonal Frequency Division Multiplexing (OFDM) technology, PTP 49200 radios deliver highly reliable performance in the presence of multi-path interference caused by buildings or trees which may obstruct radio-frequency transmissions. This robust functionality means that you can communicate in locations that were previously not reachable with LOS equipment.

*Regulatory conditions for the 4.9 GHz band should be confirmed prior to system purchase.

DATA SHEET

MOTOROLA PTP 49200 BRIDGE



Choice and Flexibility

Motorola offers two models within the PTP 49200 product line, giving you the flexibility to configure the solution that best meets your needs.

- **Integrated:** With Ethernet data rates up to 21 Mbps and a built-in antenna, the Integrated model is an excellent choice where affordability with high reliability and throughput are major requirements. PTP 49200 Integrated systems are available in two versions: 56-bit Data Encryption Standard (DES) and 128-bit Advanced Encryption Standard (AES).
- **Connectorized:** Offering the same OFDM-based technology found in the Integrated system, the Connectorized model offers the gain advantage of external antennas (purchased separately). You can choose the radio and antenna configuration which best meets your application and environmental requirements. The Connectorized models are also available in two versions: 56-bit DES and 128-bit AES encryption.

Achieving Public Safety Objectives

The PTP 49200's exceptional affordability and functionality provides budget-constrained cities, towns and counties with several key advantages which are designed to support their public safety objectives, including:

- Up to 15 miles (24 km) reach to communicate with off-site fire and police stations, dispatch centers, EMTs, hospitals and other agencies in the public safety network
- GPS-synchronized transmit and receive signals to enable collocation of multiple radios on a single mast or tower with greatly reduced interference
- Easy integration with your existing network via Web-based and SNMP-based management systems as well as as Canopy® Prizm
- Extremely easy and fast installation with built-in deployment-assistance features – most systems can be deployed in a day or less

- Super-reliable hardware performance that withstands temperature extremes from -40° F (-40° C) to +131° F (+55° C) – more than 40 years mean time between failures (MTBF)

Low Cost, High ROI

PTP 49200 solutions provide public safety agencies with a low cost of ownership and high ROI, especially when you consider:

- The impact from being able to connect public service agencies in areas that were previously inaccessible with comparable LOS systems
- The cost savings from being able to deploy network extensions quickly while saving on labor and material costs associated with laying cable
- The collaboration achieved when multiple agencies can discuss situational issues and response options
- The increased safety for citizens and responders by having access to vital incident information
- The ability to meet bandwidth requirements for applications such as VoIP and video surveillance

Motorola Wireless Broadband

Motorola's comprehensive portfolio of reliable and cost-effective wireless broadband solutions together with our WLAN solutions provide and extend coverage both indoors and outdoors. The Motorola Wireless Broadband portfolio offers high-speed Point-to-Point, Point-to-Multipoint, Mesh, Wi-Fi and WiMAX networks that support data, voice and video communications, enabling a broad range of fixed and mobile applications for public and private systems. With Motorola's innovative software solutions, customers can design, deploy and manage a broadband network, maximizing uptime and reliability while lowering installation costs.

Additional Information

For more information on Motorola's PTP 49200 solutions, refer to the PTP 49200 Specification Sheet and the PTP 200 Brochure.



Motorola, Inc., 1303 E. Algonquin Road, Schaumburg, Illinois 60196 U.S.A. • www.motorola.com/ptp

MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. All other product or service names are the property of their respective owners.
© Motorola, Inc. 2009. All rights reserved.