

What Makes Motorola Wireless Broadband Solutions Superior

Industry Leading Interference Tolerance – Motorola access network solutions designed to operate in the unlicensed spectrum include GPS synchronization to mitigate self interference and have the best Carrier to Interference (C to I) ratio in the industry.

Fast, Simple Installation – Access points and subscriber modules are all Powered over Ethernet (PoE) and require no core infrastructure, equipment room or environment controlled area at the tower location. Site deployment can happen in hours.

Reliable Hardware Performance over Time – Motorola access network solutions perform in harsh weather conditions including heat, cold and moisture. Designed without heaters or cooling fans, Motorola equipment performs with negligible field failure rates.

Field Throughput Performance you can rely on– Network equipment performance specifications are statements of actual field performance, not performance in an indoor noise-free lab environment.

Scalable as Subscriber Base Grows – GPS synchronization enables network operators to build dense networks in close quarters without interference, enabling service providers and enterprises to build reliable, cost effective connectivity without using additional channels.

Proven Access Network Connectivity – With more than 4,000 networks using Motorola PMP access networks world wide and millions of modules installed, reference architectures and case studies are available to aid network design.

Proven as Infrastructure for Mesh or WLAN Networks – PMP access networks are deployed as an infrastructure capacity injection layer for mesh network technology.

Attractive Total Cost of Ownership – Motorola's reliability, scalability, tech support and high-performance gives operators a technology edge when building their network and attracting customers now and in the future.

“Using Motorola equipment accelerated my RUS funding approval” – Wichita Online

“We have worked with Motorola and RUS since we first began providing broadband services in 2003” – Air Advantage

Motorola Wireless Broadband Solutions

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.



Motorola, Inc. 1301 E. Algonquin Road, Schaumburg, Illinois 60196
U.S.A. www.motorola.com/wirelessbroadband

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Motorola Wireless Broadband RUS Approved Solutions

Applications

- Residential Connectivity
- Leased Line Replacement
- Network Extensions
- Video Surveillance
- Business Connectivity
- Public Safety





Field Proven Wireless Broadband Solutions

Key Motorola broadband solutions are RUS approved and can provide the basis for many grant proposals to support rural broadband connectivity and access. Start your preparation now with our assistance!

Motorola wireless broadband access networks have a payback of less than two years. Federal funding makes the payback even more attractive.

Motorola can help you identify areas that are eligible for USDA RUS and NTIA Grant funding, support business case/ROI development and broadband infrastructure design activities, and assist you in the grant application process including providing a proposal that you can submit as part of your application. Contact your Motorola representative right away for assistance.

- **FIELD PROVEN**
- **AVAILABLE NOW**
- **SHOVEL READY**
- **RUS APPROVED**

Find out more at motorola.com/recoveryact



Point-to-Point (PTP) Wireless Ethernet Bridges

FEATURES	2.4 GHz	4.9 GHz	5.2 GHz	5.4 GHz	5.8 GHz
RUS Listed	Approved	Applied for	Approved	Applied for	Approved
Ethernet Throughput (maximum)	14 Mbps	20 Mbps	14 Mbps	21 Mbps	14 Mbps
GPS Synchronization	✓	✓	✓	✓	✓
Latency (average round trip)	2.5 ms	5-7 ms	5-7 ms	5-7 ms	5-7 ms
Maximum Range	35 mi	5 mi	10 mi	54100: 10 mi 54200: 5 mi	35 mi

Point-to-Multipoint (PMP) Wireless Access and Distribution Networks

FEATURES	900 MHz	2.4 GHz	4.9 GHz	5.2 GHz	5.4 GHz	5.8 GHz
RUS Listed	Approved	Approved	Applied for	Approved	Applied for	Approved
Ethernet Throughput (maximum)	6 Mbps	14 Mbps	20 Mbps	14 Mbps	21 Mbps	14 Mbps
GPS Synchronization	✓	✓	✓	✓	✓	✓
Latency (average round trip)	<15 ms	5-7 ms	5-7 ms	5-7 ms	5-7 ms	5-7 ms
LOS Range (maximum with external antennas)	40 mi	15 mi	5 mi	2 mi	54120: 2 mi 54400: 5 mi	10 mi

Service providers can enhance their customer base and revenues by extending the network to reach new business and residential subscribers beyond the reach of wireline broadband offerings.

- Complement existing broadband network to reach customers in new territories, whether adjacent to an existing network or a completely new region
- Offer wireless broadband services to existing subscribers currently using dial-up; alternative to other equipment like DSL and cable
- Extend network geography into new, underserved areas
- Rapidly deploy value-based broadband

More information about Motorola broadband solutions is available at: motorola.com/wirelessbroadband