



Motorola Femtocell Ethernet Gateway (8100 Series)



The Motorola 8100 Series delivers a dedicated coverage solution for indoor/residential situations, providing operators with a complete solution—a family of small, low-cost, low-power, easy-to-install, low power, 3G Femtocell Ethernet gateways. Ethernet gateways that can be quickly integrated and provisioned into existing macro networks to support existing 3G handsets and devices. The 8100 Series also eliminates the cost and clutter of stand-alone routers, hubs, and wireless access points—it includes an advanced router and firewall with 802.11b/g wireless access point.

Highlights

3G in-building coverage

The majority of cellular calls occur indoors; however indoor 3G coverage is generally poor. The Motorola 8100 extends 3G coverage indoors, while offloading the macro network.

- Easy to use and simple to set-up with numerous built-in security features.
- Plug and play – plugs into any broadband connection (Cable or DSL).
- Built-in advanced router and firewall with 802.11b/g wireless access point - eliminates the cost and clutter of stand-alone routers, hubs, and access points.
- Quality-of-Service (QoS) for voice over data prioritization, enabling one to talk on the phone while using the Internet, without a reduction in voice quality.

Leveraging Deep Expertise in Home Networking

Motorola's KeepMeConnected™ Femtocell solutions leverage Motorola's deep expertise in home networking to enable the future of the digital home. Motorola is a global leader in delivering high-volume consumer premises equipment (CPE) and in deploying mobile and fixed networks across all technologies that are supported by world-class experience in Operations, Administration, Management, and Provisioning (OAM&P). The Motorola 8100 Series Femtocell Ethernet Gateways enhance end-user experiences, thereby limiting churn and increasing Average Revenue Per User (ARPU) through better home coverage and new multimedia applications. Motorola's KeepMeConnected end-to-end Femtocell solutions include RAN gateway/concentrator, CPE management systems, and services.

High-End, Integrated Gateways for Residential Customers

The Motorola 8100 Series gateways are the ideal choice for cost-effectively connecting residential subscribers to any broadband networks for high-speed Internet access. They allow subscribers to connect their 3G mobile phones to their home network at High-Speed Downlink Packet Access (HSDPA) speeds.

Extending 3G Coverage

The 8100 Series extends 3G coverage indoors via the home broadband connection, while allowing service providers to reduce operational costs by offloading the macro network. Consumers benefit from excellent indoor coverage, high data rates, and the convenience of using their existing 3G handsets inside the home.

Wired and Wireless Home Connectivity

By allowing subscribers to connect an 8100 Series gateway to a broadband router or modem, service providers can add 3G to home service packages to increase revenue. The 8100 Series combines a Femtocell gateway, a voice-over-IP (VoIP) port, as well as an 802.11b/g Wi-Fi® access point and a four-port Ethernet router into one compact unit, eliminating the cost and clutter of multiple units. The perfect networking solution for the home, home office, or small business, the 8100 Series allows subscribers to share a broadband connection, files, and networked printers and peripherals—with or without wires.

Robust Security

The robust security features include a built-in stateful firewall to protect single-user households from hackers and Denial of Service (DoS) attacks. Intelligent software features and diagnostics reduce the cost of ongoing customer support while increasing customer satisfaction.

Wi-Fi Protected Setup™

The 8100 Series gateways are equipped with Wi-Fi Protected Setup pairing technology. Wi-Fi Protected Setup is a certification program from the Wi-Fi Alliance that is designed to ease the task of setting up and configuring security on wireless local area networks. Introduced by the Wi-Fi Alliance in early 2007, the program provides an industry-wide set of network setup solutions for homes and small office (SOHO) environments. Wi-Fi Protected Setup enables typical users who possess little understanding of traditional Wi-Fi configuration and security settings to automatically configure new wireless networks, add new devices, and enable security.

The 8100 Series unlocks the potential of offering a dedicated coverage solution for indoor/residential situations, as well as high-quality voices services, and a whole home networking solution.

Highlights

Remote management

- Configured to enable automated service provisioning, embedded software updates, and service activation without subscriber intervention or unnecessary truck-rolls for “plug ‘n play” deployment and operations.

Voice over data prioritization

- Subscribers can talk on the phone while using the Internet—without a noticeable reduction in voice quality. Voice calls are prioritized over data traffic to enable seamless mobility of telephony services.

VoIP Telephony

Each 8100 Series platform includes an RJ-11 port and supports cellular network-terminated VoIP telephony; using the device’s integrated SIM card; This VoIP port enables the delivery of primary line, full-featured telephone service over the broadband connection to the home.

Plug and Play Installation With “Phone Home” Provisioning

Featuring Motorola’s legendary ease of use, reliability, and security, the 8100 Series includes automated provisioning capabilities. Upon first connection to the network, an 8100 gateway is configured to automatically “phone home” to the service provider, enabling automated service provisioning, embedded software updates and service activation - all without subscriber intervention. The 8100 Series is supported by the Motorola NBBS Device Management System, a world-class leading CPE service management platform that has been developed to the DSL Forum TR-069 specification. It allows service providers to expand broadband service revenues, while reducing operational and support costs through automated service provisioning and comprehensive device management.

Comprehensive Remote Manageability

The 8100 Series is designed for Service Assurance—Quality of Service at the edge of the network. Compatible with Motorola’s NBBS Device Management System, the 8100 Series can be centrally managed by Motorola’s NBBS platform, which provides centralized service and device management and integrates seamlessly with existing operational support and customer relationship management systems.

Benefits

Operators: Motorola’s 8100 Series enable operators to provide higher-quality and higher-performance wireless voice and real-time data services to their residential and small home office customers. In addition, they enable a lower cost of delivery of wireless traffic in comparison to the macro cell network. The 8100 Series may be used as part of integrated ‘triple’ or ‘quad play services’, which meet the consumers’ communication needs—increasing competitiveness and customer retention for the operator.

The 8100 Series:

- o Reduce operational expenses by off-loading of cellular macro network, when calls are made via the 8000 access point
- o Increase customer satisfaction from improved in-home coverage and reliability, a key user network quality metric
- o Improve customer retention through unique value added services
- o Enable the operator with the ability to offer QoS for voice over data prioritization

Consumers: For Consumers, the benefits of Motorola’s 8100 Series include; a seamless communication experience as they roam from inside to outside their homes, reduced in-home call charges, excellent indoor coverage and consolidated billing—all from their existing handsets. Consumers benefit from the convenience of using their mobile handset with its personal phonebook and other cool handset features, without the concerns of poor call quality or additional cost.

All features, functionality, and product specifications are subject to change without notice or obligation.



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