



# Motorola Femtocell Access Point (8000 Series)



The Motorola 8000 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 3G low-power access points that can be integrated and provisioned into existing macro networks very quickly and support existing 3G handsets and devices.

## Highlights

### 3G in-building coverage

The majority of cellular calls occur indoors; however indoor 3G coverage is generally poor. The Motorola 8000 Series extends 3G coverage indoors, while offloading the macro network.

- Easy to use and simple to set-up with numerous built-in security features.
- Plug-n-play – plugs into any broadband connection (Cable or DSL).
- Quality-of-Service (QoS) for voice over data prioritization, enabling one to talk on the phone while using the Internet, without a noticeable 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 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 8000 Series Femtocell Access Points 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.

## Integrated Access Points for Residential Customers

The Motorola 8000 Series access points are the ideal choice for cost-effectively connecting residential subscribers to any broadband network for high-speed Internet access. They allow subscribers to connect their 3G mobile phones to their home's LAN network at High-Speed Downlink Packet Access (HSDPA) speeds. Service providers can also offer subscribers Motorola Femtocell Ethernet Gateways (8100 Series), which adds an 802.11b/g Wi-Fi® access point, a four-port Ethernet router, and a voice-over-IP (VoIP) port into one compact unit, eliminating the cost and clutter of multiple units.

## Extending 3G Coverage

The 8000 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.

## 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.

*The 8000 Series unlocks the potential of offering 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 3G low-power access points that can be integrated and provisioned into existing macro networks very quickly and support existing 3G handsets and devices.*

## 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.

## Plug and Play Installation With “Phone Home” Provisioning

Featuring Motorola’s legendary ease of use, reliability, and security, the 8000 Series also includes automated provisioning capabilities. Upon first connection to the network, an 8000 Series access point is configured to automatically “phone home” to the service provider, enabling automated service provisioning, embedded software updates and service activation—all without subscriber intervention. They are supported by the Motorola NBBS Device Management System, a world-class leading customer premises equipment 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 8000 Series is designed for Service Assurance – Quality of Service at the edge of the network. The 8000 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 8000 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 8000 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 8000 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

Enable the operator with the ability to offer QoS for voice over data prioritization

**Consumers:** For Consumers, the benefits of Motorola’s 8000 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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