



WIRELESS BROADBAND SOLUTIONS

FOR CABLE OPERATORS

»» Wireless Broadband Solutions for Cable Operators

Extending broadband coverage to reach new commercial and residential customers can pose major challenges. But cable operators can uncover new revenue opportunities and extend their brands beyond the homes of residential subscribers by capitalizing on wireless solutions that broaden the reach of the broadband network. Motorola intends to make the Internet more accessible, more mobile, and more available through the introduction of MOTOwi4™ — wireless broadband access for fixed and mobile networks.

By deploying wireless solutions from Motorola, cable operators can increase their market share and revenues by providing affordable, interference-resistant broadband services to locations where running cable is time consuming and/or cost prohibitive. Motorola Connected Home Solutions offers “cable friendly” wireless solutions that allow cable operators to deliver broadband services to both commercial and residential subscribers. MOTOwi4 solutions include Canopy® Cable and Cable MESH.

The Canopy Cable system allows cable operators to offer high-speed services to commercial customers — without the need to tear up parking lots to run cable. And the Cable MESH multi-radio, high-performance mesh networking system lets operators provide a solution that is ideal for providing Metro-Wi-Fi wireless services and for supporting public wireless hotspot locations.

Many cable operators wanting to extend broadband coverage face formidable obstacles, such as extreme climates, long distances, and mountainous terrain. Motorola offers proven wireless broadband solutions that can accelerate time-to-revenue by allowing cable operators to swiftly offer broadband services to previously unserved communities.

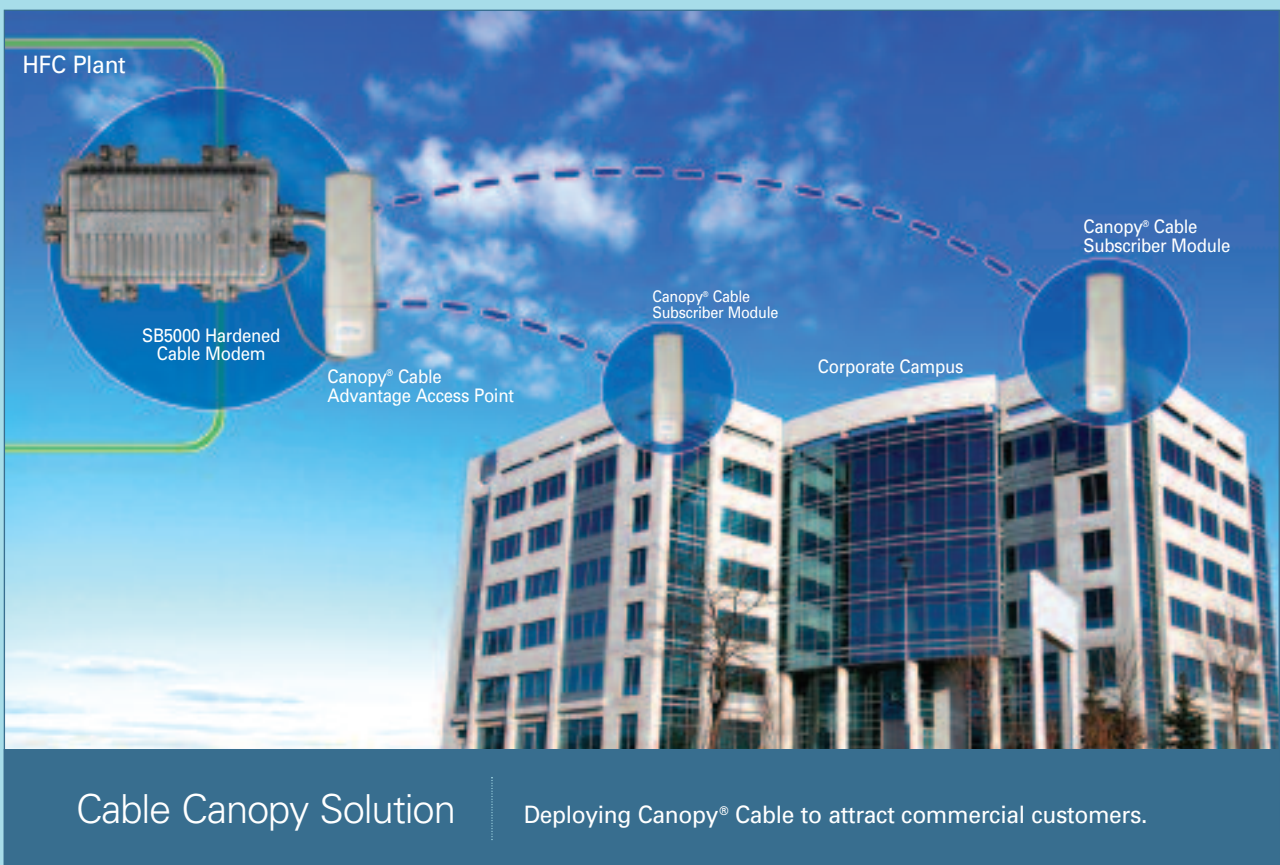


» Delivering High-Speed Wireless Commercial Services with Canopy Cable

Canopy Cable, Motorola's innovative wireless broadband solution, is the ideal technology for developing, enhancing, and extending advanced broadband networks and services. It allows cable operators to make the delivery of high-speed data both much quicker and much less expensive.

Operators can benefit from wireless broadband technology that combines carrier-grade toughness with exceptional performance, security, ease-of-use, and cost effectiveness. Canopy Cable significantly reduces the time to design and deploy new commercial broadband networks. It also seamlessly integrates with existing Hybrid Fiber Coax (HFC) access networks and network management tools to make it easy for cable operators to extend their networks to offer high-speed commercial services.

This powerful, line-of-sight fixed wireless solution allows cable operators to rapidly reach new commercial customers without the expense of building new cable capacity. Canopy Cable uses a rugged modulation scheme to take Ethernet baseband data to 2.4, 5.2, or 5.7 GHz Unlicensed National Information Infrastructure (UNII) bands, and this solution is available in point-to-point and point-to-multipoint configurations. Canopy Cable is a field-proven system that provides a high-level of interference tolerance and signal reliability.



A Canopy Cable Subscriber Module (SM) can be installed at an enterprise facility to provide up to a sustained 7 or 14 Mbps aggregate throughput for commercial customers. The SM is connected to the customer's Ethernet LAN and communicates through a Canopy Cable Advantage Access Point with a Motorola SB5000 hardened cable modem to gain access to the HFC network. Canopy Cable allows cable operators to efficiently serve commercial customers and it can provide a return-on-investment in just six-to-twelve months.

Unlike wireless DOCSIS® solutions, Canopy Cable never permits freespace interference to enter into the sheath, so it does not introduce noise back into the cable plant. It offers higher-speed transmission over longer distances. Canopy

Cable is a robust, high-speed wireless broadband solution for cost-effective commercial services.

Canopy Cable is a scalable, reliable solution that supports high-speed broadband applications. Its superior performance promises one of the lowest total costs of ownership and it allows operators to extend the HFC network to support enterprise customers without the need to run cable to the business location. Canopy Cable is a proven solution and it is based on Motorola's point-to-point and point-to-multipoint Canopy configurations that are being deployed in more than 100 countries around the world.

» Providing Residential and Hotspot Services over Wireless Infrastructure

Motorola's Cable MESH networking solution allows cable operators to cost-effectively provide Metro-Wi-Fi customers with wireless services. Cable MESH lets subscribers wirelessly access critical broadband applications seamlessly — anytime, and anywhere. It offers cable operators the freedom to provide subscribers with access to cable network services — wirelessly.

Every Cable MESH access point contains a standards-compliant 802.11b/g Wi-Fi® radio operating at 2.4 GHz and an 802.11a radio operating at 5.8 GHz for mesh backhaul. Cable MESH is a wide area, multi-radio solution that offers the security, capacity, and flexibility needed for wireless services.

Dual radio operation dedicates the 802.11a radio to carrying the meshed backhaul, and it frees the 802.11 b/g radio for dedicated client access. This configuration increases throughput by up to 100 percent while dramatically reducing packet latency and interference issues. High-performance radios deliver 36 dBm EIRP transmit power and 100 dBm receiver sensitivity.

Cable MESH can be used to deliver Wi-Fi access to the public, and will be able to support the delivery of 4.9 GHz mobile broadband services for use by public safety municipal agencies such as fire and police services.

By leveraging technology originally developed for battlefield communications, Cable MESH supports high-speed data and video services for both fixed and mobile users. Data links automatically self-form and self-heal between users and network infrastructure. Because every access point is meshed, backhaul, deployment, and operational costs can be greatly reduced.

With Cable MESH, cable operators can deliver Seamless Mobility. Seamless broadband data connectivity is available today throughout the network to both stationary and mobile users. Users can connect to the Wi-Fi network with off-the-shelf Wi-Fi devices, potentially enabling millions of existing Wi-Fi enabled laptops, cameras, and PDAs to access the network.

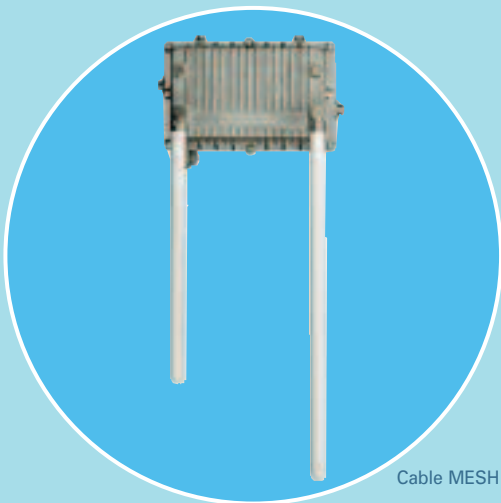


Cable MESH Broadband Solution

Cable MESH supports 2.4 and 5.8 GHz bands today and in the future will support 4.9 GHz public safety services.

PUBLIC ACCESS HIGHLIGHTS

- Increases resident, business, and visitor satisfaction.
- Public Wi-Fi access can be provisioned at a few hotspots or citywide.
- Public access can be deployed as a revenue generator or to reduce customer churn.
- Public access is available to any Wi-Fi enabled device or PC card.



Cable MESH

Cable MESH provides support for the 802.11a, b, and g specifications, and Motorola supports the 802.11s draft standard Meshing Standard established by the IEEE. The 802.11s draft standard was created to define common features and ensure interoperability between mesh equipment.

Motorola customers will be able to configure existing platforms to be compliant with the 802.11s draft standard via over-the-air software downloads. Cable MESH is based on Motorola's MOTOMESH™ technology, which is deployed to support municipal and public safety networks.



Wireless Broadband Solutions for Cable Operators

Motorola offers MOTOw4 solutions that allow cable operators to offer high-speed fixed or mobile services to commercial or residential subscribers. Canopy Cable and Cable MESH solutions leverage Motorola's more than 75 years of radio knowledge, experience, and leadership. But Motorola offers much more than technical expertise. Motorola's dedication to creating and maintaining trusted relationships over the long term means cable operators that select Motorola wireless solutions can be assured of high levels of service and support as their networks grow over the years. Motorola Connected Home Solutions provides scalable, end-to-end systems for the delivery of broadband services that keep consumers informed, entertained, and connected. Our technology enables cable operators to create and capitalize on new business opportunities by providing innovative services to residential, commercial, and municipal customers.



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WLS-BR-0806