

Canopy Point-to-Point Portfolio

Motorola's flexible MOTOwi4 point-to-point solutions

MOTOwi⁴



MOTOwi4 Point-to-Point Solutions Engineered for Simple-to-Complex Applications in Challenging Environments

With the introduction of its MOTOwi4 product portfolio, Motorola makes it easier and more cost effective to build 4th generation wireless networks for a wide range of applications. These systems will enable providers to increase revenue opportunities and customer loyalty by delivering today's—and tomorrow's—most innovative and in-demand broadband services.

Proven Canopy Platform

The MOTOwi4 portfolio builds on globally proven Canopy™ wireless broadband technology, now delivering successful high-speed solutions in more than 100 countries worldwide. The Canopy system's underlying technologies—based on Motorola's proprietary design as well as Orthogonal Frequency Division Multiplexing (OFDM)—offer the flexibility to deliver custom solutions for a wide range of consumer, enterprise, carrier and government markets and applications.

Canopy Point-to-Point Portfolio

The MOTOwi4 Canopy Point-to-Point Portfolio includes powerful technology that helps enterprise users, service providers and carriers establish highly reliable and secure point-to-point wireless links for bandwidth-intense applications. The portfolio includes products that cost-effectively deliver reliable links and higher throughput in Line-of-Sight (LoS), near-LoS and Non-LoS environments. The Canopy Portfolio seamlessly integrates with the MOTOwi4 solutions including WiMAX, Metro WiFi and today's Canopy solutions.

Highly Reliable, Efficient Point-to-Point Solutions for the Most Challenging Locations and Applications

Motorola offers two series of Canopy point-to-point products developed to meet a variety of connectivity challenges. The Line-of-Sight 10 and 20 Mbps backhaul products are designed to operate in the 2.4, 5.1, 5.2, 5.4 and 5.7 GHz frequencies. The OFDM 30, 60, 150 and 300 Mbps models are designed for the 5.7 GHz frequency band. Operators use the systems' higher bandwidth to transmit IP data, video, VoIP and channelized voice for a variety of markets and applications.

Point-to-Point Benefits

The MOTOwi4 Point-to-Point Portfolio provides exceptional link reliability and performance, significantly reducing interference in noisy RF conditions and nLoS and NLoS environments. Small footprints and power over Ethernet reduce the amount of valuable tower space needed, and remote link management capabilities help lessen operating costs. Installation is fast and simple, with units designed to be easily mounted and adjusted even in the smallest of spaces.

The Canopy Point-to-Point Portfolio

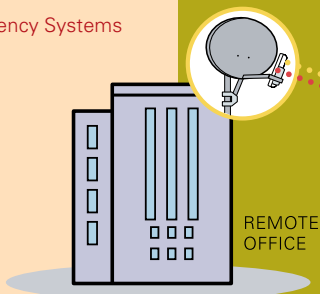


10 Mbps

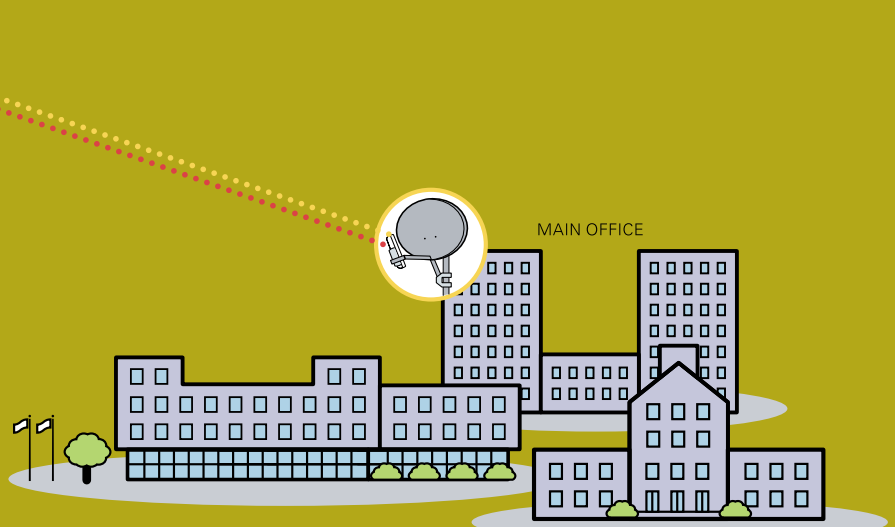
MSRP	Starting at less than \$2,000 USD Per Link
Frequencies	2.4 GHz, 5.1 GHz, 5.2 GHz, 5.4 GHz, 5.7 GHz
Range	LoS - Up to 35 Miles (56 Kilometers)
Usable Throughput	7.5 Mbps
Security	DES and AES Encryption
Technology	Proprietary
Unique Features	<ul style="list-style-type: none">• Line-of-Sight• Highly Reliable• Weather Resistant• Compact & Rugged Design• Consistent Data Rates in Face of Interference• Reflector Available to Extend Range• Options for Solar and Wind Power

Ideal Applications

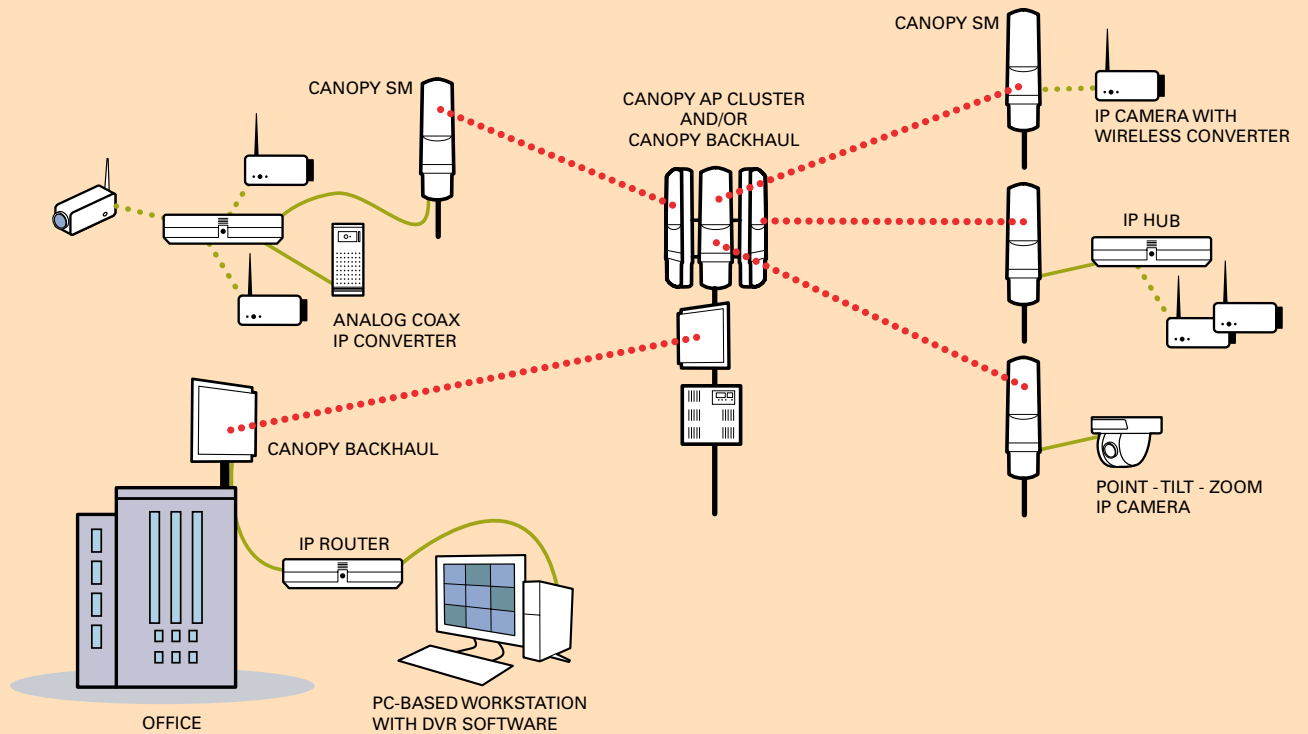
- Rural or Remote Locations
- Uniting Campuses
- Temporary & Emergency Systems
- Video Surveillance
- Telemedicine
- E-Learning
- Banking



Uniting Campuses and Remote Facilities



IP Video Surveillance Applications



20 Mbps

MSRP	Starting at less than \$4,000 USD Per Link
Frequencies	2.4 GHz, 5.1 GHz, 5.2 GHz, 5.4 GHz, 5.7 GHz
Range	LoS - Up to 35 Miles (56 Kilometers)
Usable Throughput	14 Mbps
Security	DES and AES Encryption
Technology	Proprietary
Unique Features	<ul style="list-style-type: none"> • Line-of-Sight • Highly Reliable • Weather Resistant • Compact & Rugged Design • Consistent Data Rates in Face of Interference • Reflector Available to Extend Range • Options for Solar and Wind Power

Ideal Applications

- Rural or Remote Locations
- Uniting Campuses
- Temporary & Emergency Systems
- Video Surveillance
- Telemedicine
- E-Learning
- Backbone for Metro WiFi Networks
- Banking



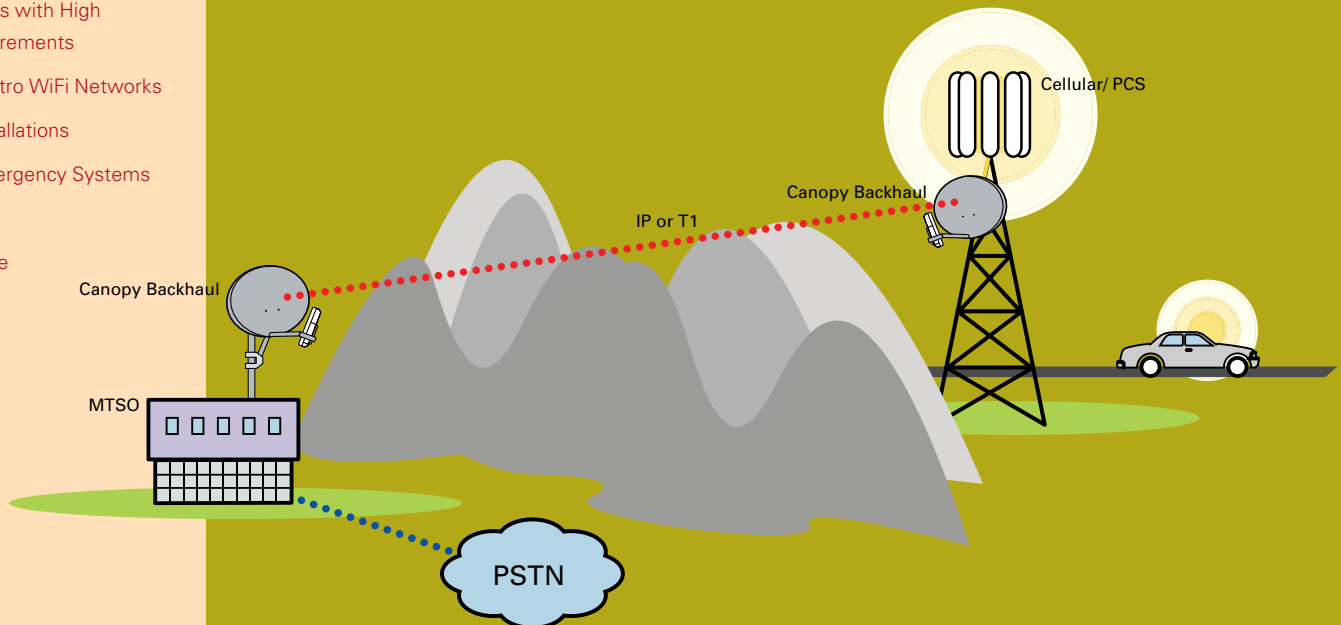
30 Mbps

MSRP	\$7,200 USD Per Link
Frequencies	5.7 GHz
Range	LoS - Up to 124 Miles (200 Kilometers) nLoS - Up to 25 Miles (40 Kilometers) NLoS - Up to 6 miles (10 Kilometers)
Usable Throughput	Dynamically variable modulation ranges from 1.5 Mbps to 21 Mbps
Security	Proprietary Scrambling Technique
Technology	OFDM
Unique Features	<ul style="list-style-type: none"> • Software Upgradeable to 60 Mbps • Line-of-Sight • NON and Near Line-of-Sight • Carrier Class Reliability • Weather Resistant • Compact & Rugged Design • Dual Polarized Antennas • Integrated & Connectorized Antenna Options • Adaptive Modulation • Dynamic Frequency Selection • Transmit Diversity • Redundant Power Supplies

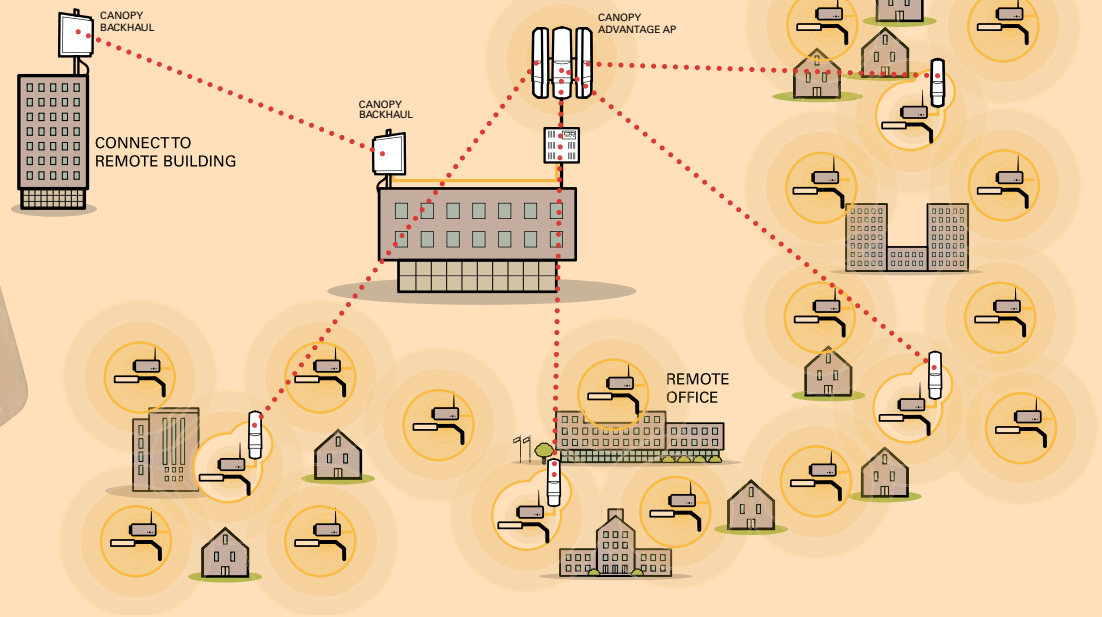
Ideal Applications

- Urban/Suburban Locations
- Uniting Campuses with High Bandwidth Requirements
- Backbone for Metro WiFi Networks
- Government Installations
- Temporary & Emergency Systems
- Cellular Backhaul
- Video Surveillance
- Telemedicine
- E-Learning
- Banking

Backhauling Cellular and 3G IP Data



Backbone for Metro Wi-Fi



60 Mbps

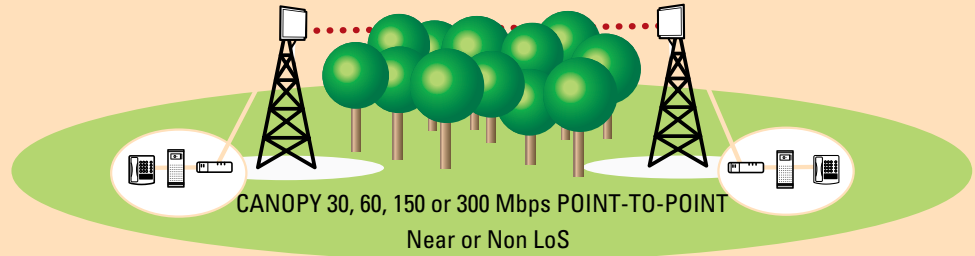
MSRP	\$11,995 USD Per Link
Frequencies	5.7 GHz
Range	LoS - Up to 124 Miles (200 Kilometers) nLoS - Up to 25 Miles (40 Kilometers) NLoS - Up to 6 miles (10 Kilometers)
Usable Throughput	Dynamically variable modulation ranges from 3.0 Mbps to 43 Mbps
Security	Proprietary Scrambling Technique
Technology	OFDM

Unique Features	<ul style="list-style-type: none"> • Line-of-Sight • NON and Near Line-of-Sight • Carrier Class Reliability • Weather Resistant • Compact & Rugged Design • Dual Polarized Antennas • Integrated & Connectorized Antenna Options • Adaptive Modulation • Dynamic Frequency Selection • Transmit Diversity • Redundant Power Supplies
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Ideal Applications

- Urban/Suburban Locations
- Uniting Campuses with High Bandwidth Requirements
- Backbone for Metro WiFi Networks
- Government Installations
- Temporary & Emergency Systems
- Cellular Backhaul
- Video Surveillance
- Telemedicine
- E-Learning
- Banking

E1/T1 Solutions for Carriers and Enterprise Applications



150 Mbps

MSRP	\$19,995 USD Per Link
Frequencies	5.7 GHz
Range	LoS - Up to 124 Miles (200 Kilometers) nLoS - Up to 25 Miles (40 Kilometers) NLoS - Up to 6 miles (10 Kilometers)

Usable Throughput	Dynamically variable modulation ranges from 7 Mbps to 150 Mbps
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Security	Proprietary Scrambling Technique
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Technology	OFDM
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Unique Features	<ul style="list-style-type: none"> • Software Upgradeable to 300 Mbps • Line-of-Sight • NON and Near Line-of-Sight • Carrier Class Reliability • Weather Resistant • Compact & Rugged Design • Dual Polarized Antennas • Integrated & Connectorized Antenna Options • Adaptive Modulation • Dynamic Frequency Selection • Transmit Diversity • One Built in E1/T1 • Redundant Power Supplies • Optional Fiber Optic Data Module
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Ideal Applications

- Urban/Suburban Locations
- Fiber Replacement
- Uniting Campuses with High Bandwidth Requirements
- Backbone for Metro WiFi Networks
- Government Installations
- Temporary & Emergency Systems
- Cellular Backhaul
- Video Surveillance
- Telemedicine
- E-Learning
- Banking

300 Mbps

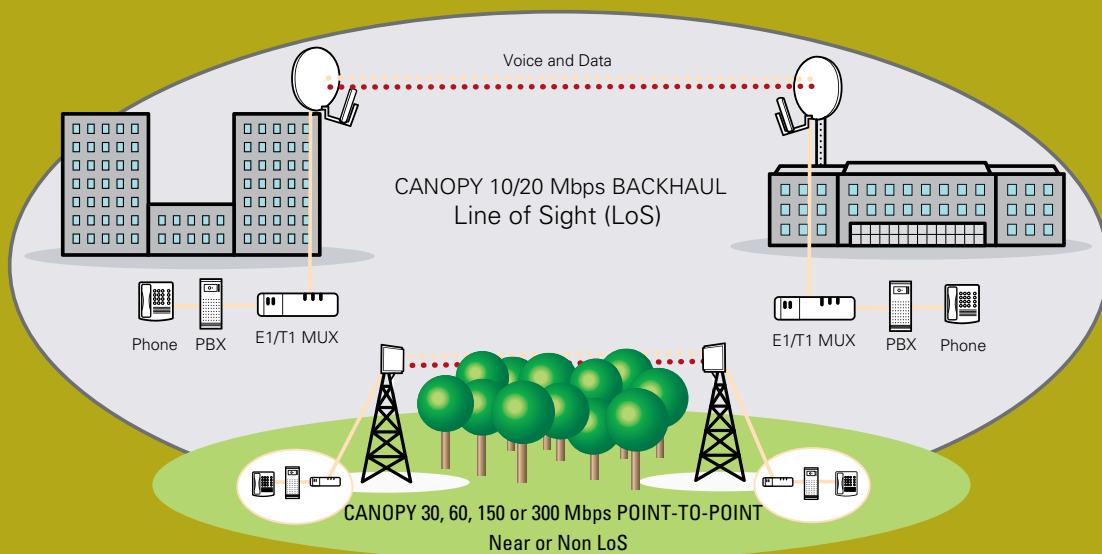
MSRP	\$19,995 USD Per Link
Frequencies	5.7 GHz
Range	LoS - Up to 124 Miles (200 Kilometers) nLoS - Up to 25 Miles (40 Kilometers) NLoS - Up to 6 miles (10 Kilometers)
Usable Throughput	Dynamically variable modulation ranges from 14 Mbps to 300 Mbps
Security	Proprietary Scrambling Technique
Technology	OFDM
Unique Features	<ul style="list-style-type: none">• Line-of-Sight• NON and Near Line-of-Sight• Carrier Class Reliability• Weather Resistant• Compact & Rugged Design• Dual Polarized Antennas• Integrated & Connectorized Antenna Options• Adaptive Modulation• Dynamic Frequency Selection• Transmit Diversity• Two Built in E1/T1s• Redundant Power Supplies• Optional Fiber Optic Data Module



Ideal Applications

- Urban/Suburban Locations
- Fiber Replacement
- Uniting Campuses with High Bandwidth Requirements
- Backbone for Metro WiFi Networks
- Government Installations
- Temporary & Emergency Systems
- Cellular Backhaul
- Video Surveillance
- Telemedicine
- E-Learning
- Banking

E1/T1 Solutions for Carriers and Enterprise Applications



For more information and detailed specifications about the MOTOw4 Canopy Point-to-Point Solutions, call 866-515-5825 in the U.S. 800-795-1530 internationally, visit us online at www.motorola.com/canopy or contact your Authorized Canopy Solution Provider.



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