

wi4 Mesh

MOTOMESH[™] Duo

Two Radio Meshed WiFi Network with 5.4GHz for Backhaul



Dynamic Frequency Selection (DFS)

MOTOMESH Duo supports the mandated DFS required for operation in European regions and Australia. DFS is a radar avoidance protocol that upon detection of an interfering radar signal, will automatically switch to an alternate channel to avoid interference with the military. medical, or weather devices. Transmit Power Control (TPC) reduces the radio-frequency (RF) output power to a level that minimizes the risk of interference.

Software Highlights

The MOTOMESH Duo solution offers a multitude of software features for enhancing your network experience. With Peer-to-Peer Communication Blocking ISPs (Internet Service Providers) now have an effective way to manage billing applications and client tracking scenarios. With the combination of Duo's VLAN support and standard 802.11e QoS, ISPs can create differentiated services that will allow them to offer tiered packages. Finally, historical, comprehensive statistics are now available for future reference and review.

MOTOMESH Product Advantage

The MOTOMESH product series makes wireless cities a reality with robust and future-proof wireless broadband technologies. Whether providing wireless access to a campus, business, neighborhood or city, MOTOMESH delivers real-time data to your residents, employees, and customers, enabling vital wireless broadband applications.

Single or Dual-Radio Operation

MOTOMESH Duo easily functions as a single or a two radio system. The two radio system utilizes the 5.4GHz radio to mesh backhaul, freeing up the 2.4GHz radio for dedicated client access. This notably increases throughput over single-radio systems. Moreover, the 5.4 GHz radio can also be configured to provide client access supporting WiFi subscriber stations using the 802.11a standard.

Proven Mesh Routing

MOTOMESH Duo leverages MeshConnex™ routing technology, using real-time congestion management and link control to automatically select the best data route on a per-request basis. This dramatically reduces hop latency, to better deliver real-time voice and multimedia services. Today, MeshConnex powers large-scale Motorola mesh networks of more than 1,000 nodes.

Carrier-Class Security

MOTOMESH Duo supports complete end-to-end security. It provides WEP, WPA and WPA2 encryption on client access. Motorola's own Secure Mesh ensures the highest data security within the meshed WiFi network. Finally, users can create access lists that can block particular clients from accessing the network.

Compact Form Factor

The small profile, light weight form factor, and slim-line aesthetics increase mounting location flexibility and community acceptance.

Advanced Network Management

MOTOMESH Duo utilizes Motorola's One Point Wireless Manager to manage and visualize a multitude of capabilities for small to large networks and all of these capabilities are controllable from a single suite of software. By completing one profile, a large number of devices can be configured easily, reducing the time required to provision individual devices and complete on-going adjustments. Once the network is up and running, the Wireless Manager is a flexible and powerful tool that monitors the health of the network's components for quick detection and resolution of problems that can impact network performance and user satisfaction.

Flexible & Adaptable Gateways

Every MOTOMESH Duo unit is capable of being an Intelligent Access Point (IAP) or Mesh Wireless Router (MWR), reducing the cost of storing excess inventory and simplifying deployment. Additionally, IAPs immediately adapt to backhaul loss by becoming wireless routers, routing traffic to an alternate gateway in the network. This automatic, self-healing ability minimizes service interruptions and ensures continuous connectivity.

Quality of Service (QoS)

Delay-sensitive applications like video and voice services require different data priorities. MOTOMESH Duo supports IEEE 802.11e based traffic prioritization. It constantly monitors node congestion, and automatically tunes its QoS parameters to optimize route selections, to support latency sensitive applications.

Motorola, Your End-to-End Solution Provider

Motorola's wireless broadband portfolio offers an array of access and backhaul technologies for complete end-to-end wireless initiatives. Motorola's Fixed Point-to-Multipoint and Point-to-Point solutions provide reliable, high-capacity Internet backhaul links to Motorola's mesh networks. MeshPlanner and MeshScanner enable detailed network planning and optimization capabilities. Additionally, Motorola's ecosystem of applications offers a wide range of validated solutions to garner multiple benefits from your wireless network.

SPECIFICATION SHEET

MOTOMESH Duo Two Radio Meshed WiFi Network with 5.4GHz for Backhaul

Benefits

- Best-in-class radio performance
- Reliable coverage
- Best-in-class throughput
- Robust security

MOTOwi4

MOTOMESH Duo is part of the MOTOwi4 family of broadband access technologies, a comprehensive platform of wireless broadband solutions, applications and services. Designed to complement and complete wireless networks, MOTOwi4 solutions address a broad range of applications across municipal, enterprise, and operator segments. The comprehensive MOTOwi4 portfolio creates a true end-to-end ecosystem of complementary products, services and solutions that provide high speed connectivity enabling a broad range of applications in fixed, nomadic, portable or mobile environments. Working together, wi4 Mesh solutions combined with other MOTOwi4 access technologies deliver ubiquitous, metro-wide (community-wide, campuswide) wireless broadband coverage.

Why Motorola

Motorola is uniquely positioned to address the wireless broadband market through the MOTOwi4 vision. Motorola has aligned its business units and roadmaps to provide a comprehensive, end-to-end solution covering all aspects of the broadband wireless access deployment. With our deep and extensive patent portfolio, over a decade of R&D investment, and our experience as a global supplier of broadband wireless access solutions, Motorola is primed to deliver its best in class wireless networks. Motorola is committed to leading the industry with end-to-end wi4 Mesh solutions addressing the full scope of the operator's deployment needs including access, core, devices, network management and services.

Network Interface Weatherized 10/100 Base-T Ethernet (RJ-45) port with surge suppression Network Segmentation 16 VAPs (Multiple SSIDs with VLAN mapping) Quality of Service (QoS) 802.11e, weighted fair queuing and IP precedence bits (ToS) supported via DSI SECURITY Client Encryption Support WEP, WPA (TKIP) and WPA2 (AES, 802.11i) Intra-Mesh Encryption SecureMesh with AES Authentication 802.1X (Infrastructure/Client) and MAC address hardware authentication TCP/IP Filtering Broadcast storm and port filtering POWER Power Input 90-264 VAC (with +/- 20% variation at 47-63Hz) or Optional 10.8-14VDC (2.5A N Power Connector Weatherized NEMA 5-15 power cord ◆ 3.66m (12 ft) Power Consumption 15W to 30W (with PoE device) Power over Ethernet (PoE) Support for Canopy PoE, or 802.3af Standard PoE device PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") ◆ 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Nounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters	MOTOMESH DUO • 4300-54 RADIO CHARACTERISTICS		
RF Modulation CCK (802.11b), OFDM (802.11a/g) Transmit Power (Maximum) 31dBm EIRP (802.11b/g), 34 dBm EIRP (802.11a) * Settable in 1dB increments 802.11b: -92dBm 05 14 Mbps to -93dBm 06 1 Mbps 802.11g: -77dBm 05 44 Mbps to -93dBm 06 1 Mbps 802.11a: -77dBm 05 44 Mbps to -93dBm 06 6 Mbps 802.11a: -77dBm 05 44 Mbps to -93dBm 06 6 Mbps 802.11a: -77dBm 05 44 Mbps to -93dBm 06 6 Mbps 802.11a: -77dBm 05 44 Mbps to -93dBm 06 6 Mbps ROUTING Technology MeshConnex routing with Layer 1 situational-awareness Protocol Patented, Layer 2, hybrid proactive/reactive routing NETWORK Network Management Software EMS on Linux OS via SNMPv1, SNMPv2c or secure SNMPv3 * Web Interface via HTTPS (SSL) * 802.11 and MOTOMESH M Network Interface Weatherized 10/100 Base-T Ethernet (RJ-45) port with surge suppression Network Segmentation 16 VAPs (Multiple SSIDs with VLAN mapping) Quality of Service (OoS) 802.11e, weighted fair queuing and IP pracedence bits (ToS) supported via DSI SECURITY Client Encryption Support WEP, WPA (TKIP) and WPA2 (AES, 802.11) Intra-Mash Encryption SecureMesh with AES Authentication S02.1X (Infrastructure/Client) and MAC address hardware authentication TCPAP Filtering Broadcast storm and port filtering POWER Power Input 90-264 VAC (with +/- 20% variation at 47-63+2) or Optional 10.8-14VDC (2.5A N Power Connector Weatherized NEMA 5-15 power cord * 3.66m (12 ft) Power Consumption 15W to 30W (with PoE device) PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9" x 6" x 3.5") * 3097cm² (189in²) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range 30 to 60 °C (22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Pert 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antenna	IEEE 802.11b/g Radio (20MHz Channel)	2.400 to 2.483GHz	
Transmit Power (Maximum) 31dBm EIRP (802.11b/g), 34 dBm EIRP (802.11a) • Settable in 1dB increments Receive Sensitivity 802.11b: -92dBm @ 11 Mbps to -100dBm @ 1 Mbps 802.11a: -77dBm @ 54 Mbps to -93dBm @ 6 Mbps 802.11a: -77dBm @ 54 Mbps to -93dBm @ 6 Mbps 802.11a: -77dBm @ 54 Mbps to -93dBm @ 6 Mbps Antenna Type N=Type • Two (2) omnidirectional: 8dBi for 2.4GHz and 10dbi for 5.4GHz ROUTING ROUTING ROUTING MeshConnex routing with Layer 1 situational-awareness Protocol Patented, Layer 2, hybrid proactive/reactive routing NETWORK Network Management Software EMS on Linux OS via SNMPv1, SNMPv2c or secure SNMPv3 • Web Interface via HTTPS (SSL) • 802.11 and MOTOMESH Metwork Interface Westherized 10/100 Base=T Ethernet (RJ-45) port with surge suppression Network Segmentation 16 VAPs (Multiple SSIS) with VLAN mapping) Quality of Service (QoS) 802.11e, weighted fair queuing and IP precedence bits (ToS) supported via DS SECURITY Client Encryption Support WEP, WPA (TKIP) and WPA2 (AES, 802.11) Intra-Mesh Encryption SecureMesh with AES 802.110 SecureMesh with AES 802.114 (Infrastructure/Client) and MAC address hardware authentication TCP/IP Filtering Broadcast storm and port filtering POWER Power Input 90-264 VAC (with +/- 20% veriation at 47-63Hz) or Optional 10.8-14VDC (2.5A Newer Consumption 15W to 30W twith PoE device) Power Connector Westherized NEMA 5-15 power cord • 3.66m (12 ft) Support for Canopy PoE, or 802.3af Standard PoE device PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9" x 6" x 3.5") • 3097cm³ (189in²) Weight 2.04kg (4.5 lbs) Pockaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Tomperature Range 30 to 60 "C (22 to 140 "F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Actional and power Plug Adapters	IEEE 802.11a Radio (20MHz Channel)	5.470 to 5.725GHz	
Receive Sensitivity 802.11b: -92dBm @ 11 Mbps to -910dBm @ 1 Mbps 802.11c: -77dBm @ 54 Mbps to -910dBm @ 6 Mbps 802.11c: -77dBm @ 54 Mbps to -93dBm @ 6 Mbps Antenna Type N-Type • Two (2) omnidirectional: 8dBi for 2.4GHz and 10dbi for 5.4GHz ROUTING Technology MeshConnex routing with Layer 1 situational-awareness Protocol Patented, Layer 2, hybrid proactive/reactive routing NETWORK Network Management Software EMS on Linux Os via SNMPv1, SNMPv2c or secure SNMPv3 • Web Interface via HTTPS (SSU • 802.11 and MOTOMESH M Network Interface Weatherized 10/100 Base-T Ethernet (RJ-45) port with surge suppression Network Segmentation 16 VAPs (Multiple SSIDs with VLAN mapping) Ouality of Service (QoS) 802.11e, weighted fair queuing and IP precedence bits (ToS) supported via DS SECURITY Client Encryption Support WEP, WPA (TKIP) and WPA2 (AES, 802.11i) Intra-Mesh Encryption SecureMesh with AES Authentication 802.1X (Infrastructure/Client) and MAC address hardware authentication TCP/IP Filtering Broadcast storm and port filtering POWER Power Input 90-264 VAC (with +/- 20% variation at 47-63Hz) or Optional 10.8-14VDC (2.5A Mesher) Power Consumption 15W to 30W (with PoE device) Physical Dimensions 2.3.1cm x 15.2cm x 8.9cm (9" x 6" x 3.5") • 3097cm² (189in²) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range 4.0 to 69 °C (22 to 140 °F) Regulatory Certifications FCC Part 15, Ce, MET Mark / CSA / UL, ReHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVALLABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Actional Actional and Clied Adapters AC photo cell adapters and US, EU, and AU Power Plug Adapters	RF Modulation	CCK (802.11b), OFDM (802.11a/g)	
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802.11g: -78dBm @ 54 Mbps to -95dBm @ 6 Mbps 802.11a: -77dBm @ 54 Mbps to -95dBm @ 6 Mbps Antenna Type N-Type • Two (2) omnidirectional: 8dBi for 2.4GHz and 10dbi for 5.4GHz ROUTING Technology MeshConnex routing with Layer 1 situational-awareness Protocol Patented, Layer 2, hybrid proactive/reactive routing NETWORK Network Management Software EMS on Linux OS via SNMPv1, SNMPv2c or secure SNMPv3 • Web Interface via HTTPS (SSL) • 802.11 and MOTOMESH M Notwork Interface Weatherized 101/00 Base-T Ethernet (R1-45) port with surge suppression Network Segmentation 16 VAPs (Multiple SSIDs with VLAN mapping) Quality of Service (QoS) 802.11e, weighted fair queuing and IP precedence bits (ToS) supported via DS SECURITY Client Encryption Support WEP, WPA (TKIP) and WPA2 (AES, 802.11i) Intra-Mesh Encryption SecureMesh with AES Authentication 802.1X (Infrastructure/Client) and MAC address hardware authentication TCP/IP Filtering Broadcast storm and port filtering POWER Power Input 90-264 VAC (with +/- 20% variation at 47-83Hz) or Optional 10.8-14VDC (2.5A Meyer Consumption 15W to 30W (with PoE device) Power Consumption 15W to 30W (with PoE device) Power Consumption 23.1cm x 15.2cm x 8.9cm (9" x 6" x 3.5") • 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range 30 to 60 °C (-22 to 140 °F) Heymidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Avaluable Poug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Receive Sensitivity		
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NETWORK Network Management Software EMS on Linux OS via SNMPv1, SNMPv2c or secure SNMPv3 • Web Interface via HTTPS (SSL) • 802.11 and MOTOMESH M Network Interface Weatherized 10/100 Base-T Ethernet (RJ-45) port with surge suppression Network Segmentation 16 VAPs (Multiple SSIDs with VLAN mapping) Quality of Service (QoS) 802.11e, weighted fair queuing and IP precedence bits (ToS) supported via DSI SECURITY Client Encryption Support WEP, WPA (TKIP) and WPA2 (AES, 802.11i) Intra-Mesh Encryption SecureMesh with AES Authentication 802.1X (Infrastructure/Client) and MAC address hardware authentication TCP/IP Filtering Broadcast storm and port filtering POWER Power Input 90-264 VAC (with +/- 20% variation at 47-63Hz) or Optional 10.8-14VDC (2.5A Nover Consumption 15W to 30W (with PoE device) Power Consumption 15W to 30W (with PoE device) PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") • 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters	Technology	MeshConnex routing with Layer 1 situational-awareness	
Network Management Software EMS on Linux OS via SNMPv1, SNMPv2c or secure SNMPv3 • Web Interface via HTTPS (SSL) • 802.11 and MOTOMESH M Network Interface Weatherized 10/100 Base-T Ethernet (RJ-45) port with surge suppression Network Segmentation 16 VAPs (Multiple SSIDs with VLAN mapping) Quality of Service (QoS) 802.11e, weighted fair queuing and IP precedence bits (ToS) supported via DSI SECURITY Client Encryption Support WEP, WPA (TKIP) and WPA2 (AES, 802.11i) Intra-Mesh Encryption SecureMesh with AES Authentication 802.1X (Infrastructure/Client) and MAC address hardware authentication TCP/IP Filtering POWER Power Input 90-264 VAC (with +/- 20% variation at 47-63Hz) or Optional 10.8-14VDC (2.5A New Power Connector Weatherized NEMA 5-15 power cord ◆ 3.66m (12 ft) Power Consumption 15W to 30W (with PoE device) Power Consumption 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Protocol	Patented, Layer 2, hybrid proactive/reactive routing	
Secure SNMPv3 • Web Interface via HTTPS (SSL) • 802.11 and MOTOMESH N Network Interface Weatherized 10/100 Base-T Ethernet (RJ-45) port with surge suppression Network Segmentation 16 VAPs (Multiple SSIDs with VLAN mapping) Quality of Service (QoS) 802.11e, weighted fair queuing and IP precedence bits (ToS) supported via DSI SECURITY Client Encryption Support WEP, WPA (TKIP) and WPA2 (AES, 802.11i) Intra-Mesh Encryption SecureMesh with AES Authentication 802.1X (Infrastructure/Client) and MAC address hardware authentication TCP/IP Filtering Broadcast storm and port filtering POWER Power Input 90-264 VAC (with +/- 20% variation at 47-63Hz) or Optional 10.8-14VDC (2.5A N Power Connector Weatherized NEMA 5-15 power cord • 3.66m (12 ft) Power Consumption 15W to 30W (with PoE device) Power over Ethernet (PoE) Support for Canopy PoE, or 802.3af Standard PoE device PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") • 3097cm³ (189in²) Weight 2.04kg (4.5 lbs) Veight 2.04kg (4.5 lbs) T.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Regulatory Certifications Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	NETWORK		
Network Interface Weatherized 10/100 Base-T Ethernet (RJ-45) port with surge suppression Network Segmentation 16 VAPs (Multiple SSIDs with VLAN mapping) Quality of Service (QoS) 802.11e, weighted fair queuing and IP precedence bits (ToS) supported via DSI SECURITY Client Encryption Support WEP, WPA (TKIP) and WPA2 (AES, 802.11i) Intra-Mesh Encryption SecureMesh with AES Authentication 802.1X (Infrastructure/Client) and MAC address hardware authentication TCP/IP Filtering Broadcast storm and port filtering POWER Power Input 90-264 VAC (with +/- 20% variation at 47-63Hz) or Optional 10.8-14VDC (2.5A Nover Connector Weatherized NEMA 5-15 power cord ◆ 3.66m (12 ft) Power Consumption 15W to 30W (with PoE device) Power over Ethernet (PoE) Support for Canopy PoE, or 802.3af Standard PoE device PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") ◆ 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range 30 to 60 °C (+22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters	Network Management Software	EMS on Linux OS via SNMPv1, SNMPv2c or	
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SECURITY Client Encryption Support WEP, WPA (TKIP) and WPA2 (AES, 802.11i) Intra-Mesh Encryption SecureMesh with AES Authentication 802.1X (Infrastructure/Client) and MAC address hardware authentication TCP/IP Filtering Broadcast storm and port filtering POWER Power Input 90-264 VAC (with +/- 20% variation at 47-63Hz) or Optional 10.8-14VDC (2.5A Nower Connector Weatherized NEMA 5-15 power cord • 3.66m (12 ft) Power Consumption 15W to 30W (with PoE device) Power over Ethernet (PoE) Support for Canopy PoE, or 802.3af Standard PoE device PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (8"x 6"x 3.5") • 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting T.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Network Segmentation	16 VAPs (Multiple SSIDs with VLAN mapping)	
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Intra-Mesh Encryption SecureMesh with AES Authentication 802.1X (Infrastructure/Client) and MAC address hardware authentication TCP/IP Filtering Broadcast storm and port filtering POWER Power Input 90-264 VAC (with +/- 20% variation at 47-63Hz) or Optional 10.8-14VDC (2.5A Nover Connector Weatherized NEMA 5-15 power cord ◆ 3.66m (12 ft) Power Consumption 15W to 30W (with PoE device) Power over Ethernet (PoE) Support for Canopy PoE, or 802.3af Standard PoE device PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") ◆ 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	SECURITY		
Authentication 802.1X (Infrastructure/Client) and MAC address hardware authentication TCP/IP Filtering Broadcast storm and port filtering POWER Power Input 90-264 VAC (with +/- 20% variation at 47-63Hz) or Optional 10.8-14VDC (2.5A Nower Connector Weatherized NEMA 5-15 power cord • 3.66m (12 ft) Power Consumption 15W to 30W (with PoE device) Power over Ethernet (PoE) Support for Canopy PoE, or 802.3af Standard PoE device PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") • 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Client Encryption Support	WEP, WPA (TKIP) and WPA2 (AES, 802.11i)	
POWER Power Input 90-264 VAC (with +/- 20% variation at 47-63Hz) or Optional 10.8-14VDC (2.5A Nower Connector Weatherized NEMA 5-15 power cord ● 3.66m (12 ft) Power Consumption 15W to 30W (with PoE device) Power over Ethernet (PoE) Support for Canopy PoE, or 802.3af Standard PoE device PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") ● 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Intra-Mesh Encryption	SecureMesh with AES	
Power Input 90-264 VAC (with +/- 20% variation at 47-63Hz) or Optional 10.8-14VDC (2.5A Nower Connector Weatherized NEMA 5-15 power cord ● 3.66m (12 ft) Power Consumption 15W to 30W (with PoE device) Power over Ethernet (PoE) Support for Canopy PoE, or 802.3af Standard PoE device PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") ● 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Authentication	802.1X (Infrastructure/Client) and MAC address hardware authentication	
Power Input 90-264 VAC (with +/- 20% variation at 47-63Hz) or Optional 10.8-14VDC (2.5A Nower Connector Weatherized NEMA 5-15 power cord ● 3.66m (12 ft) Power Consumption 15W to 30W (with PoE device) Power over Ethernet (PoE) Support for Canopy PoE, or 802.3af Standard PoE device PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") ● 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	TCP/IP Filtering	Broadcast storm and port filtering	
Power Connector Weatherized NEMA 5-15 power cord ● 3.66m (12 ft) Power Consumption 15W to 30W (with PoE device) Power over Ethernet (PoE) Support for Canopy PoE, or 802.3af Standard PoE device PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") ● 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	POWER		
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Power over Ethernet (PoE) Support for Canopy PoE, or 802.3af Standard PoE device PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") ● 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Power Connector	Weatherized NEMA 5-15 power cord • 3.66m (12 ft)	
PHYSICAL Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") ● 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Power Consumption	15W to 30W (with PoE device)	
Dimensions 23.1cm x 15.2cm x 8.9cm (9"x 6"x 3.5") ● 3097cm³ (189in³) Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Power over Ethernet (PoE)	Support for Canopy PoE, or 802.3af Standard PoE device	
Weight 2.04kg (4.5 lbs) Packaging Outdoor, all-weather enclosure (NEMA 4 / IP54) Mounting 7.62cm (3") diameter post mounting ENVIRONMENTAL & REGULATORY Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	PHYSICAL		
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## Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 ### AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly	Weight	2.04kg (4.5 lbs)	
## Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 ### AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly	Packaging	Outdoor, all-weather enclosure (NEMA 4 / IP54)	
Temperature Range -30 to 60 °C (-22 to 140 °F) Humidity 0 to 95%, non-condensing at 50 °C (122 °F) Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters			
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Regulatory Certifications FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Temperature Range	-30 to 60 °C (-22 to 140 °F)	
Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Humidity	0 to 95%, non-condensing at 50 °C (122 °F)	
Dynamic Frequency Selection ETSI Standard EN301 893 AVAILABLE OPTIONS & ACCESSORIES Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Regulatory Certifications	FCC Part 15, CE, MET Mark / CSA / UL, RoHS / CMM / WEEE, Industry Canada	
Mounting Lamp post mount bracket assembly Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Dynamic Frequency Selection	ETSI Standard EN301 893	
Antennas 4 or 6dBi omnidirectional for 2.4GHz Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	AVAILABLE OPTIONS & ACCESS	ORIES	
Power Plug Adapters AC photo cell adapter and US, EU, and AU Power Plug Adapters	Mounting	Lamp post mount bracket assembly	
	Power Plug Adapters	AC photo cell adapter and US, EU, and AU Power Plug Adapters	
	Power over Ethernet (PoE) Adapters	Canopy Connect or IEEE 802.3af PoE	



ONE YEAR PARTS & LABOR WARRANTY

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