

Tropos 3210

Outdoor - Indoor MetroMesh™ Router

TROPOS
networks

Metro-Scale Mesh Networking Defined™

The patented Tropos® MetroMesh™ architecture delivers the maximum scalability, high capacity at low cost and great user experience demanded by carriers, municipalities and network users. The MetroMesh architecture combines the innovative and patented Tropos MetroMesh OS, the industry's most sophisticated metro-scale mesh routing intelligence, with the Tropos MetroMesh operation and optimization tools, which provide centralized visibility, analysis and control, and purpose-built MetroMesh routers with peerless Wi-Fi radio performance. MetroMesh enables carriers, municipalities and public safety agencies to deliver city-wide fixed and mobile multi-megabit connectivity for IP-based voice, video and data applications.

The MetroMesh OS, including the Tropos Predictive Wireless Routing Protocol (PWRP™), is the industry's most scalable mesh routing algorithm. The Tropos 3210 MetroMesh router, utilizing the embedded PWRP, creates a self-organizing and self-healing wireless mesh, and intelligently selects the most

optimum data path to the wired network. Because the MetroMesh OS and PWRP never require more than 5% of available bandwidth, networks can be easily scaled to many thousand nodes without any client throughput or network capacity degradation.

The MetroMesh architecture is key to maximizing network economics, as the software, management, and hardware combine to enable the operation of multiple independent networks on a single metro-scale Wi-Fi mesh infrastructure. Individual user communities can operate independently on the MetroMesh, segregating information access, billing, and access levels.

Tropos MetroMesh routers require only power and can be deployed anywhere it is available. Each MetroMesh router provides wireless connectivity to standard 802.11b/g clients and extends the coverage area of the metro-scale Wi-Fi network.

The ruggedized and weatherized Tropos 3210 can be mounted on external structures such as buildings or lampposts to quickly implement citywide applications such as police data communications or public wireless access.

FEATURES

MetroMesh OS

- Patented, purpose-built layer 3 mesh routing intelligence
- Predictive Wireless Routing Protocol dynamically employs links across multiple frequency bands to form the highest throughput, lowest latency end-to-end path
- Dynamic channel assignment, automatic power control and automated data rate selection provide the most efficient use of RF spectrum
- Redundant, self-configuring and self-healing network architecture
- Adaptive Mesh Connectivity Engine compensates for Wi-Fi client variations, improving connection reliability
- Ability to configure and operate multiple virtual networks on a single wireless infrastructure
- High-speed, session-persistent roaming

Secure Management

- User-defined traffic filters
- 802.1x/802.11i/WPA2
- MAC address access control lists
- AES encryption of mesh data and control traffic
- Secure local and remote configuration via HTTPS
- SNMP-based element management system

Platform

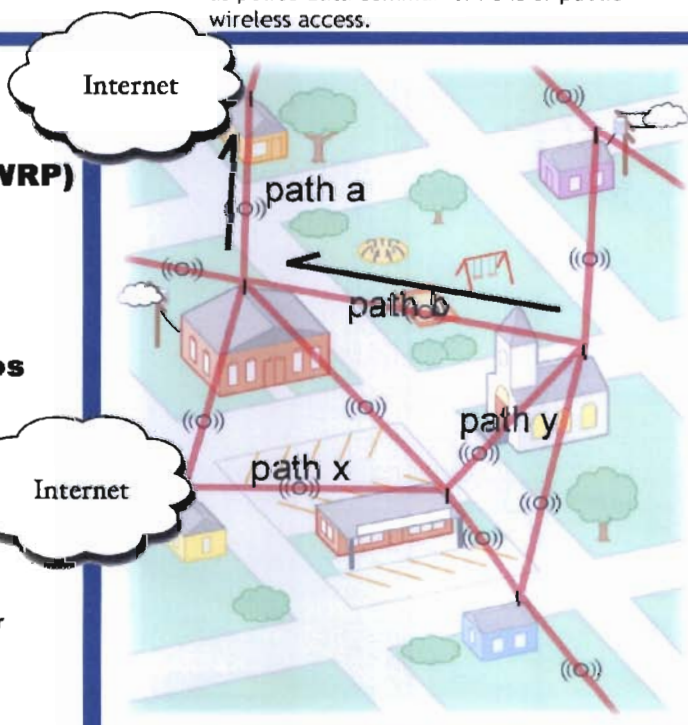
- High-performance 54 Mbps Wi-Fi
- Best-in-class link budget for superior RF propagation
- Ruggedized and weatherized for extreme outdoor conditions

Tropos Networks Predictive Wireless Routing Protocol (PWRP)

determines that path a+b provides better throughput than path x+y to wired gateway and routes around any interference.

Mayhem Mesh Radios Provide Rugged Outdoor MetroMesh Performance At Indoor Prices

Mayhem Radios are fully Tropos compatible and come with a competitive 1 year bumper to bumper warranty.



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Metro-Scale Mesh Networking Defined™



TECHNICAL SPECIFICATIONS

Wireless

- IEEE 802.11b/g
- Frequency band: 2.4-2.483 GHz
- Modulation: 802.11g - OFDM (64-QAM, 16-QAM, QPSK, BPSK)
802.11b - DSSS (DBPSK, DQPSK, CCK)
- TX Power: 20 dBm (Average)
- Media Access Protocol: CSMA/CA with ACK
- RX Sensitivity:

-97 dBm @ 1 Mbps	-91 dBm @ 12 Mbps
-96 dBm @ 2 Mbps	-90 dBm @ 18 Mbps
-95 dBm @ 5.5 Mbps	-86 dBm @ 24 Mbps
-92 dBm @ 11 Mbps	-83 dBm @ 36 Mbps
-94 dBm @ 6 Mbps	-77 dBm @ 48 Mbps
-93 dBm @ 9 Mbps	-74 dBm @ 54 Mbps

- 1 male N connector

Networking

- NAT support
- Layer 2 and Layer 3 support
- DHCP Server and Relay
- TCP and VPN session persistent roaming
- Full 802.11b/g client compatibility
- Sub-interface support

Management

- SNMP V2c
- Tropos MIB
- HTTPS to on-board management tools
- Secure local and remote configuration via HTTPS
- Web-based management tool
- Simple configuration save and restore
- Network & client monitoring and statistical capture features

Security

- Authentication: 802.11i, WPA, WPA2, 802.1x (Including EAP-TLS/TLS/SIM/PEAP)
- Encryption: WEP, TKIP, AES
- AES encryption of mesh and control traffic
- Multiple BSSIDs & ESSIDs (ESSID suppression)
- Full VPN compatibility (VPN filtering—rejects non-VPN traffic)
- MAC address access control lists
- HTTPS only to on-board management tools
- Packet filtering

Environmental Specifications

- Operating temperature range: -10 °C to 50 °C
- Humidity: 95% (non-condensing)

Approvals

- FCC CFR 47 Part 15, Class A
- Industry Canada RSS 210
- EN 60 950
- UL 60950-1
- CSA 22.2 No. 950
- UL 2043 Plenum Rated

Hardware Specifications

- Autosensing 10/100BaseT Ethernet
- Power input:
 - External wall plug-in AC power supply: 90 - 265VAC 50/60Hz
 - 802.3af Power over Ethernet with optional accessory*
- Power Consumption: 7 W typical

Warranty

- One (1) year on parts and labor; return to point of purchase
- Optional standard and premium support packages available

Package Contents

- Tropos 3210
- Mounting accessories
- Hardware Installation Guide
- Quick Start Guide
- Antennas and power supply ordered separately

Mayhem Features

- PoE Capable (8V-60V DC)
- AC power in (80-240 V)
- 12V Battery Charge Controller
- 24V internal power tap (x2)
- 12V internal power tap (x2)
- 5V internal power tap (x2)
- Reversible Polarity PoE Out (all ports)
- Selectable Voltage PoE Out (all ports 5V, 12V, 24V, 30V, 28V DC)
- Low Temperature Thermal Couple (Triggers Resistive Heater)*
- High Temperature Thermal Couple (Triggers "Optional" Peltier Cooler)*
- Sun Shield
- Pole Mount

*NOTE: Heating and cooling will only work with AC power source.

**COMMUNITY
WIRELESS
COMMUNICATIONS**

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Tropos 5210

Outdoor MetroMesh™ Router



FEATURES

MetroMesh OS

- Patented, purpose-built layer 3 mesh routing intelligence
- Predictive Wireless Routing Protocol dynamically employs links across multiple frequency bands to form the highest throughput, lowest latency end-to-end path
- Dynamic channel assignment, automatic power control and automated data rate selection provide the most efficient use of RF spectrum
- Redundant, self-configuring and self-healing network architecture
- Adaptive Mesh Connectivity Engine compensates for Wi-Fi client variations, improving connection reliability
- Ability to configure and operate multiple virtual networks on a single wireless infrastructure
- High-speed, session-persistent roaming

Secure Management

- User-defined traffic filters
- 802.1x/802.11i/WPA2
- MAC address access control lists
- AES encryption of mesh data and control traffic
- Secure local and remote configuration via HTTPS
- SNMP-based element management system

Platform

- High-performance 54 Mbps Wi-Fi
- Best-in-class link budget for superior RF propagation
- Ruggedized and weatherized for extreme outdoor conditions

The patented Tropos® MetroMesh™ architecture delivers the maximum scalability, high capacity at low cost and great user experience demanded by carriers, municipalities and network users. The MetroMesh architecture combines the innovative and patented Tropos MetroMesh OS, the industry's most sophisticated metro-scale mesh routing intelligence, with the Tropos MetroMesh operation and optimization tools, which provide centralized visibility, analysis and control, and purpose-built MetroMesh routers with peerless Wi-Fi radio performance. MetroMesh enables carriers, municipalities and public safety agencies to deliver city-wide fixed and mobile multi-megabit connectivity for IP-based voice, video and data applications.

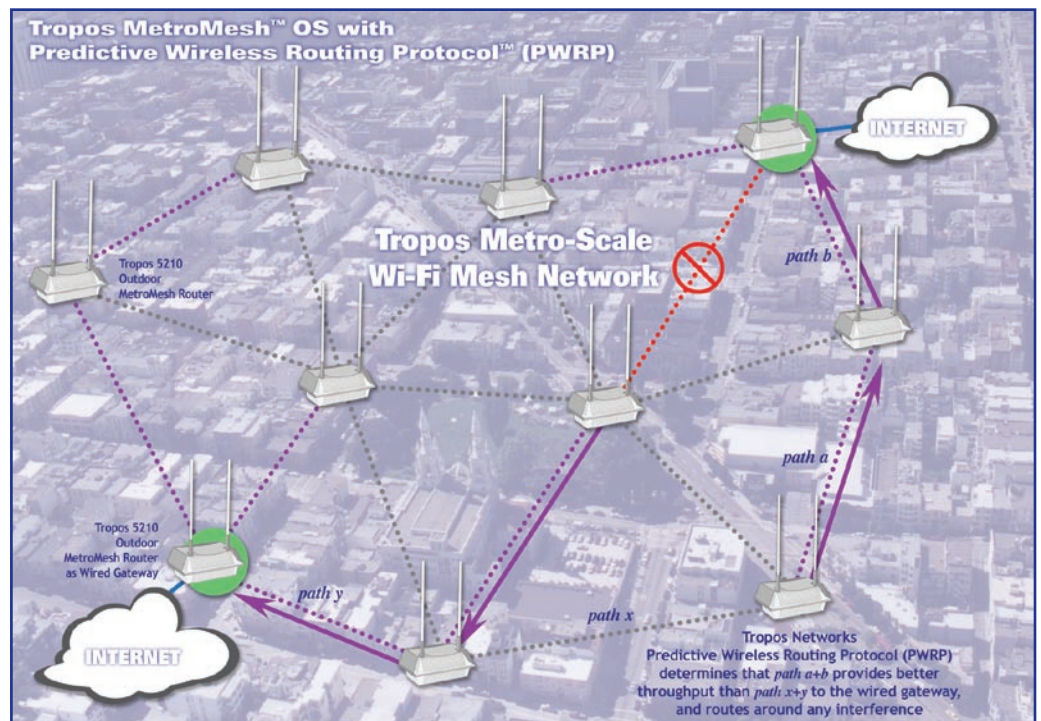
The MetroMesh OS, including the Tropos Predictive Wireless Routing Protocol (PWRP™), is the industry's most scalable mesh routing algorithm. The Tropos 5210 outdoor MetroMesh router, utilizing the embedded PWRP, creates a self-organizing and self-healing wireless mesh, and intelligently selects the most optimum data path to the wired network. Because the MetroMesh OS and PWRP never require more than 5% of

available bandwidth, networks can be easily scaled to many thousand nodes without any client throughput or network capacity degradation.

The MetroMesh architecture is key to maximizing network economics, as the software, management, and hardware combine to enable the operation of multiple independent networks on a single metro-scale Wi-Fi mesh infrastructure. Individual user communities can operate independently on the MetroMesh, segregating information access, billing, and access levels.

Tropos MetroMesh routers require only power and can be deployed anywhere it is available. Each MetroMesh router provides wireless connectivity to standard 802.11b/g clients and extends the coverage area of the metro-scale Wi-Fi network.

The ruggedized and weatherized Tropos 5210 is NRTL certified for outdoor installation. It can be mounted on external structures such as buildings or lampposts to quickly implement citywide applications such as police data communications or public wireless access.



Tropos 5210

Outdoor MetroMesh™ Router

TECHNICAL SPECIFICATIONS

Wireless

- IEEE 802.11b/g
- Frequency band: 2.4-2.483 GHz
- Modulation: 802.11g - OFDM (64-QAM, 16-QAM, QPSK, BPSK)
802.11b - DSSS (DBPSK, DQPSK, CCK)
- TX Power: Standard-Power 14dBm-24dBm (EIRP) factory-set in 1dB units
High-Power 26dBm-36dBm (EIRP) factory-set in 1dB units
- 7.4dBi Omnidirectional antennas
- Media Access Protocol: CSMA/CA with ACK
- RX Sensitivity:

-100dBm @ 1 Mbps	-92dBm @ 12 Mbps
-95dBm @ 2 Mbps	-89dBm @ 18 Mbps
-93dBm @ 5.5 Mbps	-86dBm @ 24 Mbps
-91dBm @ 11 Mbps	-83dBm @ 36 Mbps
-94dBm @ 6 Mbps	-78dBm @ 48 Mbps
-93dBm @ 9 Mbps	-76dBm @ 54 Mbps
- Transmit and Receive diversity

Networking

- TCP and VPN session persistent roaming
- Full 802.11b/g client compatibility
- NAT support
- Layer 2 and Layer 3 support
- DHCP Server and Relay
- Sub-interface support
- Ethernet port

Management

- HTTPS to on-board configuration management tools
- Secure local and remote configuration via HTTPS
- SNMP V2c
- Tropos MIB
- Browser-based management tool
- Simple configuration save and restore
- Network & client monitoring and statistical capture features

Security

- Authentication: 802.11i, WPA, WPA2, 802.1x (including EAP-TLS/TTLS/SIM/PEAP)
- Encryption: WEP, TKIP, AES
- AES encryption of mesh and control traffic
- Multiple BSSIDs & ESSIDs (ESSID suppression)
- Full VPN compatibility (VPN filtering—rejects non-VPN traffic)
- MAC address access control lists
- HTTPS only to on-board management tools
- Packet filtering

Environmental Specifications

- Operating temperature range: -40°C to 55°C
- Storage temperature range: -40°C to 85°C
- Weather rating: IP67 weathertight
- Wind survivability: >165 mph
- Wind loading (165 mph): <300 Newtons
- MIL-STD-810F 509.4 Salt Fog rust resistance compliant
- Shock & vibration: ETSI 300-19-2-4 spec T41.E class 4M3
- Transportation: ISTA 2A

Optional Battery Back-Up

- AC models only
- Factory Installed Li-Ion battery
- Back-up power 4-12 hours typical

Optional Accessories

- Power Cables
 - Street light NEMA photo-electric control power tap 90-480 VAC, 2 wire 4 ft. power cable
 - Street light NEMA photo-electric control power tap 90-480 VAC, 2 wire 20 ft. power cable
 - Electrical power cord, US/Canada 120 VAC, 15 A, 3 prong 6 ft. or 30 ft.
- CAT5 building entrance data protection; network protection unit

Package Contents

- Tropos 5210
- Mounting bracket and accessories
- Hardware Installation and Quick Start Guides

Approvals

- FCC CFR 47 Part 15, Class B
- Industry Canada RSS 210
- Taiwan DGT LP0001/LP0002
- VCCI class B
- ARIB STD-T66
- EN 301 489-17
- EN 300 328
- EN 60 950
- IEC 950
- UL 60950-1
- CSA 22.2 No. 950
- UL 579/IEC 60529 IP67 rated for outdoor use
- UL 1449/IEC 60 664-1
- CE!

Hardware Specifications

- Autosensing 10/100BaseT Ethernet
- Power input (AC models): 90-480VAC 50/60Hz single and split-phase ANSI/IEEE C62.41 category C3 integrated branch circuit protection
- Power input (DC models): 12-60VDC
- Power consumption: 18W typical
- Power over Ethernet sourcing (AC models only): 30W output @ 12, 24 and 48VDC
- Power-on and network status lamp: Green/Red
- Dimensions (w/o mounting brackets or antennas): 13.00 in (33.02 cm) wide x 8.00 in (20.32 cm) deep x 5.3 in (13.50 cm) high
- Weight: 14 lbs (6.40 kg) max., with mounting brackets,

Protection Circuits

- Antenna Protection: ≤ 0.5μJ for 6kV/3kA @ 8/20μs Waveform
- Electrical Protection:
 - ANSI/IEEE C62.41, UL 1449-2nd ed., 10kA @ 8/20 μs Wave form, 36kA per phase, L-L, L-N, L-PE
 - EN61000-4-5 Level 4 AC Surge Immunity
 - EN61000-4-4 Level 4 Electrical Fast Transient Burst Immunity
 - EN61000-4-3 EMC Field Immunity
- Data Protection:
 - EN61000-4-2 Level 4 ESD Immunity

Warranty

- One (1) year on parts and labor; return to point of purchase
- *Optional* standard and premium support packages available

Ordering Information:

- Part Number: 52102531
Tropos 5210 MetroMesh router, 18dBm; two 7.4 dBi omni antennas; pole mount
- Part Number: 52102631
Tropos 5210 MetroMesh router, 18dBm; battery backup; two 7.4 dBi omni antennas; pole mount
- Part Number: 52103030
Tropos 5210 MetroMesh router, 28dBm; two 7.4 dBi omni antennas; pole mount
- Part Number: 52103130
Tropos 5210 MetroMesh router, 28dBm; battery backup; two 7.4 dBi omni antennas; pole mount
- Part Number: 52106000
Tropos 5210 MetroMesh router, 28dBm; DC; two 7.4 dBi omni antennas; pole mount
- Part Number: 52106060
Tropos 5210 MetroMesh router, 18dBm; DC; two 7.4 dBi omni antennas; pole mount

For additional configuration options please contact your Tropos Representative

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FEATURES

MetroMesh OS

- Patented, purpose-built layer 3 mesh routing intelligence
- Predictive Wireless Routing Protocol dynamically employs links across multiple frequency bands to form the highest throughput, lowest latency end-to-end path
- Dynamic channel assignment, automatic power control and automated data rate selection provide the most efficient use of RF spectrum
- Redundant, self-configuring and self-healing network architecture
- Adaptive Mesh Connectivity Engine compensates for Wi-Fi client variations, improving connection reliability
- Ability to configure and operate multiple virtual networks on a single wireless infrastructure
- High-speed, session-persistent roaming

Secure Management

- User-defined traffic filters
- 802.1x/802.11i/WPA2
- MAC address access control lists
- AES encryption of mesh data and control traffic
- Secure local and remote configuration via HTTPS
- SNMP-based element management system

Platform

- One 802.11b/g radio for meshing and client access
- One 802.11a radio for meshing
- Best-in-class link budget for superior RF propagation
- Ruggedized and weatherized for extreme outdoor conditions

The patented Tropos® MetroMesh™ architecture delivers the maximum scalability, high capacity at low cost and great user experience demanded by carriers, municipalities and network users. The MetroMesh architecture combines the innovative and patented Tropos MetroMesh OS, the industry's most sophisticated metro-scale mesh routing intelligence, with the Tropos MetroMesh operation and optimization tools, which provide centralized visibility, analysis and control, and purpose-built MetroMesh routers with peerless Wi-Fi radio performance. MetroMesh enables carriers, municipalities and public safety agencies to deliver city-wide fixed and mobile multi-megabit connectivity for IP-based voice, video and data applications.

The MetroMesh OS, including Predictive Wireless Routing Protocol (PWRP™) and the Advanced Mesh Connectivity Engine (AMCE™), is the industry's most scalable mesh routing algorithm. The Tropos 5320 outdoor MetroMesh router is a dual-radio mesh router that uses 802.11a and 802.11b/g links to form the mesh and uses 802.11b/g to provide client coverage and connectivity. Utilizing the embedded PWRP, the Tropos 5320 creates a self-organizing and self-healing wireless mesh that intelligently selects the optimum end-to-end data path through the mesh. Because the MetroMesh OS never requires more than 5% of available bandwidth, networks can be scaled to many thousand nodes without any client throughput or network capacity degradation. MetroMesh OS dynamically uses 5 GHz links to improve performance while not unnecessarily increasing the router density or sacrificing reliability. In

this way, the Tropos 5320 and MetroMesh OS combine to leverage the benefits of using additional spectrum to increase capacity while eliminating the pitfalls of the 5 GHz, line-of-sight, spectrum.

The Tropos 5320 maximizes the return on the network investment, as the software, management and hardware combine to enable the operation of multiple independent networks on a single metro-scale Wi-Fi mesh infrastructure. Individual user communities can operate independently on the MetroMesh, segregating information access billing, and access levels.

Tropos MetroMesh routers require only power and can be deployed anywhere it is available. Each MetroMesh router provides wireless connectivity to standard 802.11b/g clients and extends the coverage area of the metro-scale Wi-Fi network.

The ruggedized and weatherized Tropos 5320 is NRTL certified for outdoor installation. It can be mounted on external structures such as buildings or lampposts in less than 15 minutes by a trade-level worker with one tool. Outdoor MetroMesh routers run on a wide range of power options and are available with an optional, factory-installed battery backup system.

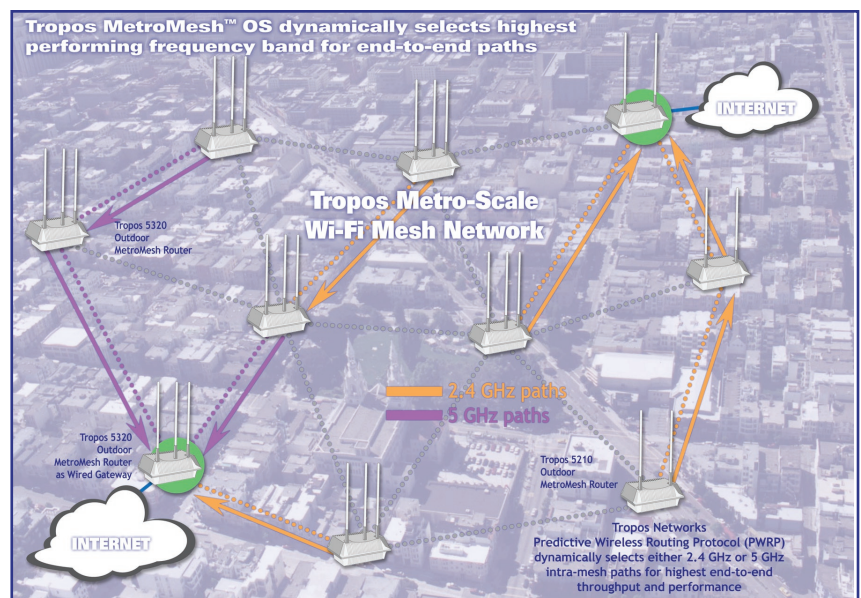


Photo courtesy of NASA Image eXchange.

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Tropos 5320

Outdoor MetroMesh™ Router

TECHNICAL SPECIFICATIONS

Wireless

- IEEE 802.11b/g
- Frequency band: 2.4-2.483 GHz
- Modulation: 802.11g - OFDM (64-QAM, 16-QAM, QPSK, BPSK)
802.11b - DSSS (DBPSK, DQPSK, CCK)
- TX Power: ETSI/EU 9dBm-20dBm (EIRP) factory-set in 1dB units
FCC/IC 21dBm-36dBm (EIRP) factory-set in 1dB units
- 7.4dBi Omnidirectional antennas
- Optional 6.0dBi omni-directional or 12dBi sector antenna(s)
- Media Access Protocol: CSMA/CA with ACK
- RX Sensitivity:

-100dBm @ 1 Mbps	-90dBm @ 18 Mbps
-94dBm @ 5.5 Mbps	-87dBm @ 24 Mbps
-92dBm @ 11 Mbps	-84dBm @ 36 Mbps
-95dBm @ 6 Mbps	-79dBm @ 48 Mbps
-93dBm @ 12 Mbps	-77dBm @ 54 Mbps
- Transmit and Receive diversity

- IEEE 802.11a
- Frequency band: 5.725 - 5.825 GHz (FCC/IC)
5.470 - 5.725 GHz (ETSI/EU)
- Modulation: 802.11a - OFDM (64-QAM, 16-QAM, QPSK, BPSK)
- TX Power: ETSI/EU 13dBm-29dBm (EIRP) factory-set in 1dB units
FCC/IC 21dBm-36dBm (EIRP) factory-set in 1dB units
- 9.1dBi Omnidirectional antenna
- Optional 12.0dBi sector (or) 19dBi patch antenna
- Media Access Protocol: CSMA/CA with ACK
- RX Sensitivity:

-95dBm @ 6 Mbps	-87dBm @ 24 Mbps
-94dBm @ 9 Mbps	-84dBm @ 36 Mbps
-93dBm @ 12 Mbps	-79dBm @ 48 Mbps
-90dBm @ 18 Mbps	-77dBm @ 54 Mbps

Networking

- TCP and VPN session persistent roaming
- Full 802.11b/g client compatibility
- NAT support
- Layer 2 and Layer 3 support
- DHCP Server and Relay
- Sub-interface support
- Ethernet port

Management

- HTTPS to on-board configuration management tools
- Secure local and remote configuration via HTTPS
- SNMP V2c
- Tropos MIB
- Browser-based management tool
- Simple configuration save and restore
- Network & client monitoring and statistical capture features

Security

- Authentication: 802.11i, WPA, WPA2, 802.1x (including EAP-TLS/TTLS/SIM/PEAP)
- Encryption: Open, WEP, TKIP, AES
- AES encryption of mesh and control traffic
- Multiple BSSIDs & ESSIDs (ESSID suppression)
- Full VPN compatibility (VPN filtering—rejects non-VPN traffic)
- MAC address access control lists
- HTTPS only to on-board management tools
- Packet filtering

Environmental Specifications

- Operating temperature range: -40°C to 55°C
- Storage temperature range: -40°C to 85°C
- Weather rating: IP67 weathertight
- Wind survivability: >165 mph
- Wind loading (165 mph): <300 Newtons
- ASTM B117 Salt Fog rust resistance compliant
- Shock & vibration: ETSI 300-19-2-4 spec T41.E class 4M3
- Transportation: ISTA 2A

Optional Battery Back-Up

- Factory Installed Li-Ion battery
- Back-up power 2 - 6 hours typical

Package Contents

- Tropos 5320
- 7.4dBi omni-directional antennas (2), 802.11b/g
- 9.1dBi omni-directional antenna (1), 802.11a
- Mounting bracket and accessories
- Hardware Installation and Quick Start Guides

Warranty

- One (1) year on parts and labor; return to point of purchase
- *Optional* standard and premium support packages available

Optional Accessories

- Power Cables
 - Street light NEMA photo-electric control power tap 100-480 VAC, 2 wire 4 ft. power cable
 - Street light NEMA photo-electric control power tap 100-480 VAC, 2 wire 20 ft. power cable
 - Electrical power cord, US/Canada 120 VAC, 15 A, 3 prong 6 ft. or 30 ft.
- CAT5 building entrance data protection; network protection unit
- 19dBi patch antenna, 802.11a

Approvals

- FCC CFR 47 Part 15, Class B
- Industry Canada RSS 210
- EN 301 489-17
- EN 300 328
- EN 301 893
- EN 60 950
- IEC 950
- UL 60950-1
- CSA 22.2 No. 60950-1
- UL 579/IEC 60529 IP67 rated for outdoor use
- UL 1449/IEC 60 664-1
- CE!

Hardware Specifications

- Autosensing 10/100BaseT Ethernet
- Power input: 100-480VAC 50/60Hz single and split-phase ANSI/IEEE C62.41 category C3 integrated branch circuit protection
- AC power consumption: 18 W typical
- Power over Ethernet power sourcing capability: 12Vdc, 24Vdc, 48Vdc @ 30W output
- Power-on and network status lamp: Green/Red
- Dimensions (w/o mounting brackets or antennas): 13.00 in (33.02 cm) wide x 8.00 in (20.32 cm) deep x 5.3 in (13.50 cm) high
- Weight: 16 lbs (7.20 kg) max., with mounting brackets,

Protection Circuits

- Antenna Protection: ≤ 0.5μJ for 6kV/3kA @ 8/20μS Waveform
- Electrical Protection:
 - ANSI/IEEE C62.41, UL 1449-2nd ed., 10kA @ 8/20 μS Wave form, 36kA per phase, L-L, L-N, L-PE
 - EN61000-4-5 Level 1 & 2 AC Surge Immunity
 - EN61000-4-4 Level 2 Electrical Fast Transient Burst Immunity
 - EN61000-4-3 Level 2 EMC Field Immunity
 - EN61000-4-2 Level 2 (contact), Level 3 (air) ESD immunity

Ordering Information:

- Part Number: 5320-0000
Tropos 5320 MetroMesh router, ETSI/EU TX, two 7.4dBi & one 9.1dBi omni antennas, bracketry
- Part Number: 5320-0100
Tropos 5320 MetroMesh router, ETSI/EU TX, battery backup, two 7.4dBi & one 9.1dBi omni antennas, bracketry
- Part Number: 5320-1000
Tropos 5320 MetroMesh router, FCC/IC TX, two 7.4dBi & one 9.1dBi omni antennas, bracketry
- Part Number: 5320-1100
Tropos 5320 MetroMesh router, FCC/IC TX, battery backup two 7.4dBi & one 9.1dBi omni antennas, bracketry

For additional configuration options please contact your Tropos Representative