The Tropos 6420-XA outdoor mesh router delivers high reliability and performance in extreme application environments.
Quality of service
- 802.11e WMM
- 802.1p/q with four queues per VLAN and ESSID
- 802.1p and DSCP support

Management
- Local and remote management tools via HTTPS
- Identity-based authentication (four levels)
- Configuration save and restore
- Over the air software upgrades
- SNMP (standard MIBs)
- Wireless, network and client monitoring and statistics
- Infrared (IR) port
- Wireless rescue
- Supros carrier-class NMS support

Security
- IPsec VPNs with tunnels to wired client interfaces using AES
- Authentication: WPA, WPA2, 802.11i, RADIUS, 802.1x (includes EAP-TLS, EAP-TTLS, EAP-SIM, PEAP)
- Encryption: open, WEP, TKIP, AES-CCM
- AES encryption of mesh and control traffic
- Technical controls required to achieve NERC CIP v5 compliance
- Multiple BSSIDs & ESSID (ESSID suppression)
- Integrated firewall
  - Packet filtering on TCP/UDP port, protocol, SA, DA
  - Peer-to-peer blocking
  - Client access control lists
- Evil twin detection and reporting
- Denial of service (DoS) attack detection and reporting
- Jamming attack detection and reporting

Environmental specifications
- Operating temperature range: -40°C to 75°C
- Storage temperature range: -40°C to 85°C
- Weather rating: IP67: UL579/IEC 60529
- Wind survivability: >200 mph
- Wind loading (200 mph): <330 Newtons
- ASTMB117 salt, fog, rust resistance compliant
- Shock & vibration: ETSI 300-19-2-4 spec T4.1E class 4M3
- Transportation: ISTA 2A

Power
- 802.3at on the 10/100/1000BASE-T port
- 12-48 VDC on the 10/100BASE-T port
- 120/240 VAC with optional, external accessory (optional external battery backup available)
- Power consumption: 4 W typical
- Power-on and network status LEDs

Physical
- Dimensions without mounting brackets
  - without antennas: 9.25” W (23.5 cm) x 7.5” D (19.1 cm) x 3.75” H (9.5 cm)
  - without mounting brackets, with antennas: 21.25” H (54 cm) – 2.4 GHz antenna 16.63 H (42.2 cm) - 5 GHz antenna
- Weight: 7 lbs (3.2 kg) without mounting brackets, with antennas

Wireless approvals
- FCC CFR 47 Part 15
- Industry Canada RSS 210
- EN 301 489-17
- EN 300 328
- EN 301 893
- EN 302 502

Safety approvals
- EN 60950
- IEC 950
- UL 60950-1
- CSA 22.2 No. 60950-1
- UL 579/IEC 60529 IP67 rated for outdoor use
- UL 1449/IEC 60664-1
- CE
- IEEE 1613

Hazardous environment certification

Regulatory domain | Specification
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United States (Class I Division 2 Groups A, B, C and D) | ANSI/ISA-12.12.01-2015
Europe (ATEX) | EN 60079-0:2012+A11:2013
 | EN 60079-7:2015/A1:2018
 | EN 60079-11:2012
Canada | CAN/CSA C22.2 NO. 213-15

Protection
- Antenna protection integrated
- Electrical protection:
  - 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

Warranty
- Five-year hardware warranty
- Software and hardware maintenance plans available

Click the link to find out more information about our wireless mesh routers.