ABB Wireless

TropOS product line overview

The TropOS product line from ABB Wireless is used to construct private wireless IP broadband networks for oil and gas, smart grid, mining and industrial control system applications.

Description

Oil and gas, smart grid, mining and industrial control system applications require an industry standards-based wireless IP broadband network that creates a solid foundation upon which multiple demanding, mission-critical applications can be deployed. The TropOS product line from ABB Wireless includes outdoor, mobile and indoor mesh routers; the patented TropOS Mesh OS built from the ground-up to meet the challenges of mission critical outdoor network deployments; and a carrier-class centralized management and control system. Using these building blocks, TropOS systems are used to construct the most resilient, scalable, high performance, and secure networks for oil and gas, utilities, mining and industrial process control applications.

Features and benefits

Software

- Decentralized architecture optimizes throughput in real-time and ensures scalability
- Dynamic selection of optimal end-to-end path delivers the highest performance
- Network performance and capacity maximized by automatic optimization of power and rate on per-connection and per-packet basis
- Comprehensive management system streamlines deployment, optimization, maintenance, and control of large, outdoor networks

Platform

- Ruggedized and weatherized to operate in hostile environments
- Open-standards-based 802.11a/b/g/n radios optimized for outdoor use
- Supports the industry's widest array of power input options
- Ideal for providing source PoE to collocated devices
- Mobile routers enable field workforce applications
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TropOS mesh routers

TropOS mesh routers build highly resilient wireless networks with high capacity for aggregating multiple, mission-critical applications covering broad geographic areas.

All TropOS mesh routers run TropOS Mesh OS. TropOS Mesh OS leverages each router's on-board intelligence to minimize network congestion and adapt on areal-time, packet-by-packet scale. This distributed approach optimizes performance and throughput by minimizing control traffic, delivers a highly scalable solution, and helps provide a quality user experience for network clients.

TropOS Mesh OS is the key to delivering high throughput and scalability. It is the industry's only mesh routing software that dynamically selects end-to-end paths through the mesh based on maximizing client-server throughput and minimizing latency.

TropOS 7000 series outdoor mesh routers

The highest performance, full-size dual radio routers with support for 802.11a/b/g/n. Architected for maximum flexibility, configurability, and resiliency including: PoE output, user-selectable antennas, and integrated battery backup. Typically used as a gateway or to power third party devices such as metering collectors and surveillance cameras or in harsh outdoor mining and industrial applications.

TropOS 6000 series outdoor mesh routers

Small, lightweight high-performance routers with integrated antennas in single or dual radio configurations and support for 802.11a/b/g/n. Can be used as mesh gateways or nodes. The TropOS 6420 supports 2x2 MIMO in both the 2.4 GHz and 5 GHz bands.

A hybrid router is available that combines a TropOS broadband router with a TeleOS narrowband PTMP base station, increasing reliability and manageability while reducing installation time and cost. It is deal to create long-range narrowband links that connect to a TropOS mesh network.

TropOS 7320 mesh router

TropOS 6420 mesh router

TropOS 6430-T mesh router

TropOS 1000 series mesh routers

Compact, easy to install devices used to build field area communication networks for automation applications. Integrated firewalls and VPNs plus DNP3 over serial and Ethernet support provide enterprise-class security and future-proof operation to legacy automation devices installed in the field.

TropOS 1410
wireless mesh router

TropOS 1410-DIN
mesh router for DIN mounting

TropOS 2000 series mesh routers

DIN rail mountable broadband routers that integrate a four-port Ethernet switch, improving reliability and reducing cost. Also includes voltage monitoring, contact closure monitoring and integrated GPS receiver.

TropOS 4000 mobile mesh routers

Single radio routers which uses 802.11b/g/n to create a mobile infrastructure to extend a TropOS fixed wireless mesh network and expand client coverage area. Integrated Ethernet port can be used to directly connect a client device.

TropOS 3000 indoor mesh routers

Small, lightweight routers for seamlessly extending outdoor TropOS mesh networks indoors. Supports 802.11a/b/g/n and available in single or dual radio configurations.

TropOS 4310-XA
mobile mesh router

TropOS 3320/3310
indoor mesh router

TropOS 4.9 product family

TropOS 4.9 GHz family products employ the licensed 4.9 GHz band to deliver maximum performance, reliability and security for public safety and critical infrastructure applications.

TropOS 7329
mesh router

TropOS 4319-XA
mobile mesh router

TropOS XA product family

TropOS XA family products deliver robust, reliable, high-performance and scalable wireless connectivity in extreme application environments.

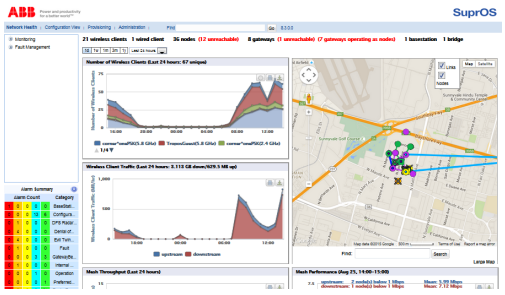
TropOS 4310-XA
mobile mesh router

TropOS 6420-XA
mesh router

TropOS 7320-XA
mesh router

SuprOS

Powerful control and analysis tools, allowing network administrators to perform a range of critical functions to configure, monitor and operate an ABB network. This includes over-the-air configuration and software updates real-time end-to-end network performance monitoring and statistical capture; data mining, trend analysis and client connectivity monitoring.



SuprOS

Click on the link to learn more about our wireless mesh routers.

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