

Tropos WiMAX Radios



Tropos Directional Radio Systems provide a seamless extension to Tropos mesh networks. Tropos WiMAX Radios are optimized for fixed, private networks and deliver high-bandwidth PTMP communications to smart grid assets. They can be used to communicate directly to devices such as recloser and capacitor bank controllers and AMI collectors. In addition, they can also be used to provide backhaul for Tropos Mesh Router clusters.

FEATURES AND BENEFITS

- ❖ WiMAX Forum 802.16-2004 compliant
- ❖ Licensed 3.3 to 3.8GHz band
- ❖ Up to 512 subscriber units per sector
- ❖ Deployable in three, four and six sector base station configurations
- ❖ GPS time synchronization for efficient spectrum and channel usage
- ❖ QoS controls for precise allocation of bandwidth and latency thresholds
- ❖ Tropos Control Management

For product specifications, please contact Tropos.

Tropos WiMAX Radios deliver 802.16-2004 compliant point-to-multipoint communications to large numbers of subscribers and support operations in the licensed 3.3 to 3.8GHz band. A robust suite of Quality of Service (QoS) controls enable prioritization of applications. Offering a transmission range of up to 45 miles, Tropos WiMAX Radios deliver data rates of up to 18 Mbps (7 MHz channel size) or up to 9 Mbps (3.5 MHz channel size).

The Tropos WiMAX base station is comprised of indoor units (IDUs) and outdoor units (ODUs). Tropos WiMAX base station radios can be deployed in configurations of three, four and six sectors to form high-capacity, multi-sector cell sites.

The Tropos WiMAX Subscriber Unit is used to provide connectivity for endpoints that are in communication with the Tropos WiMAX base station. Examples of connected endpoints include Tropos mesh network gateways and distributed smart grid assets such as AMI collectors and distribution automation devices.

Tropos WiMAX Subscriber Units are equipped with an integrated antenna for high-performance connectivity in harsh outdoor conditions. They can also be fitted with optional remote-mount antennas. The combination of an audible antenna alignment indicator and support for Power-over-Ethernet (POE) makes installation quick and easy. The rugged design and IP67 compliance ensures continued operation in harsh environmental conditions.

Network administration and performance monitoring for Tropos Mesh Routers and Tropos Directional Radio Systems is provided by Tropos Control, the industry-leading management solution for wireless infrastructures.

Advanced Network Management Platform Delivers Optimized Network Visibility and Control

Tropos Control is a standards-based network management system that consolidates management for Tropos Mesh Routers and Tropos Directional Radio Systems. Designed around an intuitive web-based interface, Tropos Control simplifies the remote management of Tropos products, and is ideal for dynamically deploying and configuring networks ranging in size from hundreds to tens of thousands of Tropos wireless network nodes.

Tropos Control minimizes planning, deployment, and operating costs—and increases the efficiency of management personnel—by performing complex tasks such as global provisioning and software updates across the network in a single session.



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