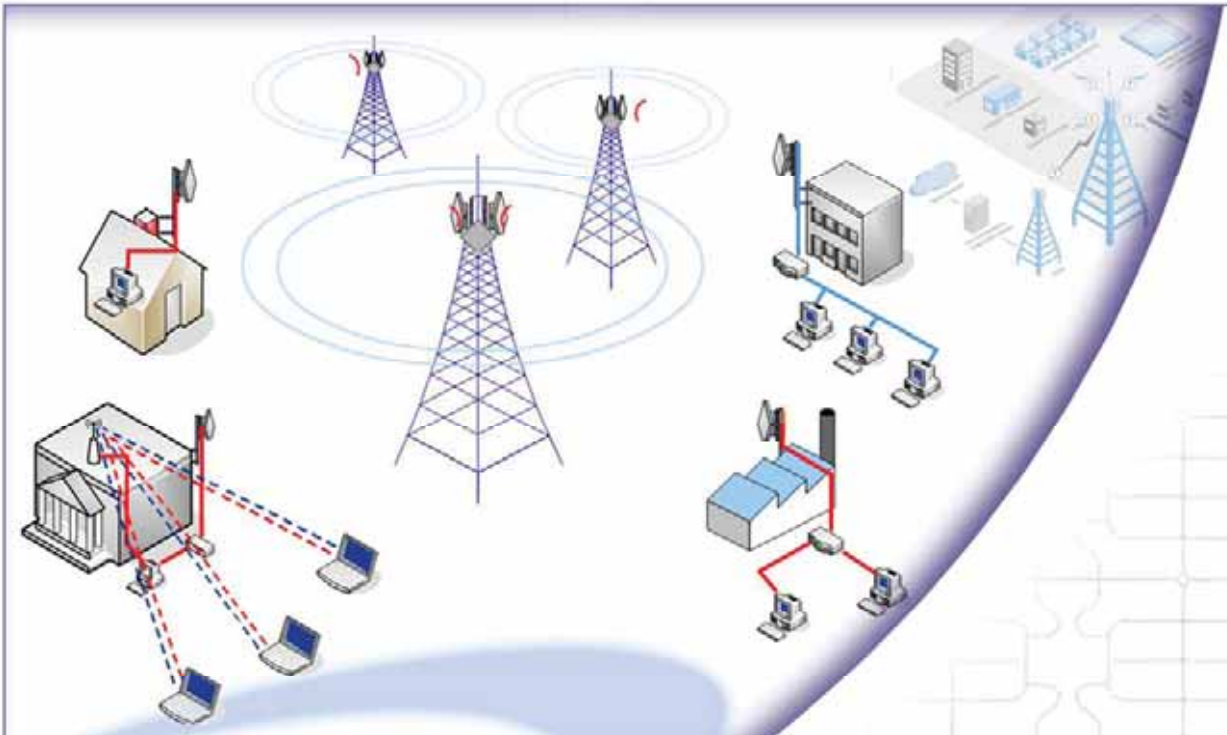

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El wimax

El wimax

WIMAX SYSYEM

ELWIMAX™ is a wireless access point with an 802.11b/g radio that interacts with 802.11b and 802.11g user devices, such as laptop computers and personal digital assistants. ELWIMAX™ also retransmits packets it receives from other ELWIMAX™, which improves the coverage of the network and eliminates the need for hard-wire Internet connections to ELWIMAX™. ELWIMAX™ firmware is a secure, QoS capable, portable Linux based OSI layer 2 wireless mesh networking software platform which targets enterprise, campus, WISP networks covering large areas with 802.11 wireless access. It is capable of functioning on numerous embedded hardware platforms with single or multiple chipset based radio modules as well as ordinary PCs.

- OSI layer 2 wireless mesh, auto discovery and dynamic configuration of new network
- Provides infrastructure for multiple branded wireless services with diverse security policies
- Wide range of supported hardware platforms
- Single and multiple 802.11 radio modules for low latency, high bandwidth applications
- Industry standard WPA2 (AES) protocol provides security for intra-mesh traffic
- Preservation of 802.1Q and 802.1P tags in intra-mesh transport
- 802.11e wireless QoS support for services and intra-mesh data transfers
- Platform independent graphical mesh monitoring software
- Remote Configuration Management support

ELWIMAX™ WiFi Mesh Features

- 802.11g Internet service and coverage of up to 8 km radius
- Connectivity between WiFi directional antennas
- Easy and automatic scaling additional nodes
- Advanced routing routing
- Self-healing redundant bandwidth at minimal
- Remote administration
- Maintenance free any voltage and outlet type
- Self-powered nodes without electricity grid available up
- Up to 400mW -95dBm receive sensitivity
- 802.16 (WiMAX) soon

Radio Specs – 802.11B

- 2.4GHz (US, Canada & ETSI)
- 2.497GHz (Japan)
- Technology — Direct Sequence Spread Spectrum (DSSS)
- Modulation type — CCK, BPSK, QPSK
- Transmit power — configurable by system administrator
- MAC — CSMA/CA with ACK

WIMAX SYSTEM

Operating Channels:

- US & Canada: 11
- ETSI: 13
- Japan: 13
- Data Rates: 1, 2, 5.5, 11 Mbps per channel

Radio Specs – 802.11G

- Frequency band
- 2.412 - 2.462GHz (US, Canada)
- 2.412 - 2.472GHz (ETSI)
- 2.412 - 2.484GHz (Japan)
- Radio technology — OFDM
-
- Modulation type — CCK, BPSK, QPSK, 16-QAM, 64-QAM
- Transmit power — configurable by system administrator
- MAC — CSMA/CA with ACK
  - Operating Channels:
  - US & Canada: 11
  - ETSI: 13
  - Japan: 14
  - Data Rates: 6, 9, 12, 18, 24, 36, 48, 54 Mbps per channel Multi-mode radio band 802.11a or 802.11b/g selectable via software

ELWIMAX™ Gateway

ELWIMAX™ Gateway is a system that utilizes an 802.11g radio, an 802.11a radio, a USB port and an Ethernet port. ELWIMAX™ Gateway links the wireless mesh network with the Internet through a link to an Internet provider or a peripheral device that links to an Internet provider.

Network Configuration

- Wireless Access Point (802.11a/b/g)
- Air Monitor (802.11a/b/g)

Antennas

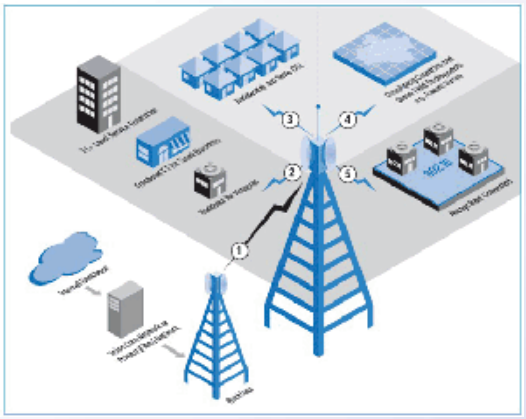
- None. Antennas supplied separately.

Radio Specs - 5GHZ

- IEEE 802.11a
- Frequency Bands Supported
- Frequency Bands Supported
  - 5.150 - 5.250GHz, country specific
  - 5.250 - 5.350GHz, country specific
  - 5.470 - 5.725GHz, country specific
  - 5.725 - 5.825/5.850GHz, country specific
- Radio technology: orthogonal frequency division multiplexing (OFDM)

Radio Specs -2.4GHZ

- IEEE 802.11b
- Frequency Bands Supported
- 2.400 - 2.4835GHz, channels country specific
- Radio technology -direct sequence spread spectrum (DSSS)
- Modulation type -CCK, BPSK, QPSK
- Transmit power -configurable by system administrator
- Operating channels:
  - US, Canada - 11
  - ETSI - 13
  - Japan – 14
- Data rates: 1, 2, 5.5, 11 Mbps per channel
- Radio band selectable via software
- IEEE 802.11g
- Frequency Bands Supported
- 2.400 - 2.4835GHz, channels country specific
- Radio technology: orthogonal frequency division multiplexing (OFDM)
- Modulation type -BPSK, QPSK, 16-QAM, 64-QAM
- Transmit power -configurable by system administrator
- MAC -CSMA/CA with ACK
- Operating channels:
  - US, Canada - 11
  - ETSI - 13
  - Japan 13
- Data rates: 6, 9, 12, 18, 24, 36, 48, 54 Mbps per channel
- Radio band selectable via software



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