

Wireless - Orthogon Gemini

Version 1.0

This probe monitors an Orthogon Systems Gemini point-to-point (P2P) Wireless Ethernet Bridge acting as a master or slave. It monitors and displays a variety of information, including mode and association, range, active channels, transmit and receive modulation mode, current and maximum transmit power, receive power, vector error, link loss, and signal-to-noise ratio. It will go into alarm and warning states based on user-specified levels for the modulation/speed mode, received power, vector error, link loss, and signal-to-noise ratio.

Thresholds:

Alarms:

Tx Mod. Mode too low: User-defined (No default)
Rx Mod. Mode too low: User-defined (No default)
Rx Power too low: User-defined (< -86)
Vector Error too high: User-defined (> 0)
Link loss too high: User-defined (> 162)
SNR too low: User-defined (< 0)

Warnings:

Tx. Mod. Mode low: User-defined (No default)
Rx. Mod. Mode low: User-defined (No default)
Rx Power low: User-defined (< -80)
Vector Error high: User-defined (> -5)
Link loss high: User-defined (> 157)
SNR low: User-defined (< 2)

Version: Included with WISPerMapper 4.3. Part of bundle 1.1. Requires Inter-Mapper 4.2.4 or later.

License: IMWirelessAddon (WISPerMapper wireless device)

Supported Equipment: Orthogon Gemini master or slave

Community String: The default community string for this device isn't known.

Glossary of Terms:

Software Version: The software version of the unit. (OID: software)

Hardware Version: The hardware version of the unit. (OID: hardware)

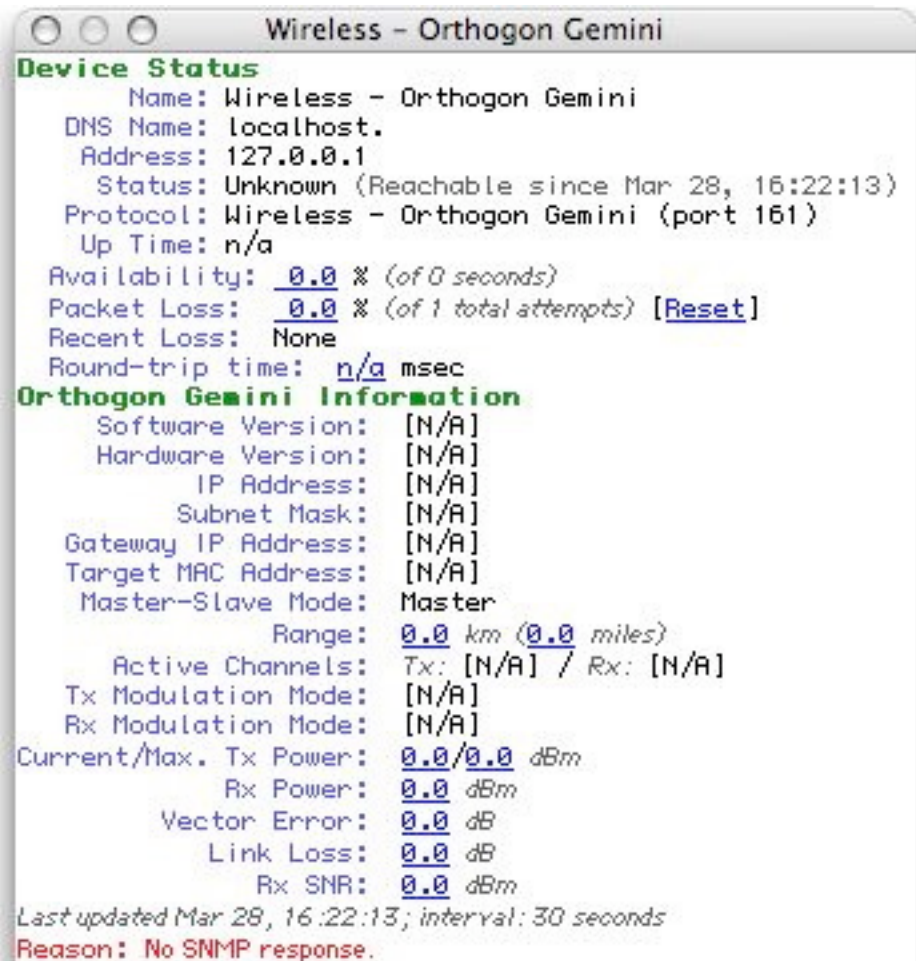
IP Address: The IP address of the unit. (OID: ipAddr)

Subnet Mask: The subnet mask of the unit. (OID: subnetMask)

Gateway IP Address: The address of the gateway. (OID: gateway IPAddr)

Target MAC Address: The target MAC address of the unit. (OID: targetMACAddr)

Master-Slave Mode: The mode of the unit. Master or Slave. (OID: based on MasterSlaveMode)



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Wireless - Orthogon Gemini
Device Status
  Name: Wireless - Orthogon Gemini
  DNS Name: localhost.
  Address: 127.0.0.1
  Status: Unknown (Reachable since Mar 28, 16:22:13)
  Protocol: Wireless - Orthogon Gemini (port 161)
  Up Time: n/a
  Availability: 0.0 % (of 0 seconds)
  Packet Loss: 0.0 % (of 1 total attempts) [Reset]
  Recent Loss: None
  Round-trip time: n/a msec
Orthogon Gemini Information
  Software Version: [N/A]
  Hardware Version: [N/A]
  IP Address: [N/A]
  Subnet Mask: [N/A]
  Gateway IP Address: [N/A]
  Target MAC Address: [N/A]
  Master-Slave Mode: Master
  Range: 0.0 km (0.0 miles)
  Active Channels: Tx: [N/A] / Rx: [N/A]
  Tx Modulation Mode: [N/A]
  Rx Modulation Mode: [N/A]
  Current/Max. Tx Power: 0.0/0.0 dBm
  Rx Power: 0.0 dBm
  Vector Error: 0.0 dB
  Link Loss: 0.0 dB
  Rx SNR: 0.0 dBm
Last updated Mar 28, 16:22:13; interval: 30 seconds
Reason: No SNMP response.
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Range: The range of the unit in km and miles. (OID: based on range)

Active Channels: The active transmit and receive channels of the unit. (OID: txChannel, rxChannel)

Tx Modulation Mode: The transmit modulation mode of the unit. From lowest to highest, BPSK 1/2, QPSK 1/2, SPSK 2/3, 16QAM 1/2, 16 QAM 3/4, 64QAM 2/3, 64QAM 3/4, or 64QAM 7/8. The speed mode is based on the modulation mode, range, and other factors. (OID: based on txModulationMode)

Rx Modulation Mode: The receive modulation mode of the unit. From lowest to highest, BPSK 1/2, QPSK 1/2, SPSK 2/3, 16QAM 1/2, 16 QAM 3/4, 64QAM 2/3, 64QAM 3/4, or 64QAM 7/8. The speed mode is based on the modulation mode, range, and other factors. (OID: based on rxModulationMode)

Current/Max. Tx. Power: The current and maximum transmit power of the unit in dBm. The maximum is a user defined limit. (OID: txPower, MaxTxPower)

Rx Power: The received power of the unit in dBm. (OID: rxPower)

Vector Error: The vector error of the unit in dBm. (OID: based on vectorError)

Link Loss: The calculated link loss of the unit. (OID: based on link Loss)

Rx SNR: The signal to noise ratio of the received transmission in dBm. (OID: rxSnr)

Related Probe: This probe is virtually identical to the “Canopy Backhaul (45 Mbps)” probe, except for the name and headers.