

Wireless - Canopy Backhaul (45 Mbps)

Version 1.0

This probe monitors a Canopy 45Mbps Backhaul radio, 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 and speed 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 InterMapper 4.2.4 or later.

License: IMWirelessAddon (WISPerMapper wireless device)

Supported Equipment: Canopy 45 Mbps Backhaul 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)

<http://www.wispermapper.com>

```
Wireless - Canopy Backhaul (45 Mbps)
Device Status
  Name: Wireless - Canopy Backhaul (45 Mbps)
  DNS Name: localhost.
  Address: 127.0.0.1
  Status: Unknown (Reachable since Mar 28, 16:44:55)
  Protocol: Wireless - Canopy Backhaul (45 Mbps) (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
Canopy Backhaul (45 Mbps) 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] (0.00 Mbps)
  Rx Modulation Mode: [N/A] (0.00 Mbps)
  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, 16:44:55; interval: 30 seconds
Reason: No SNMP response.
```

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 “Orthogon Gemini” probe, except for the name and headers. Canopy backhaul gear other than the 45 Mbps units should use the “Canopy Backhaul (Master)” or “Canopy Backhaul (Slave)” probes.