



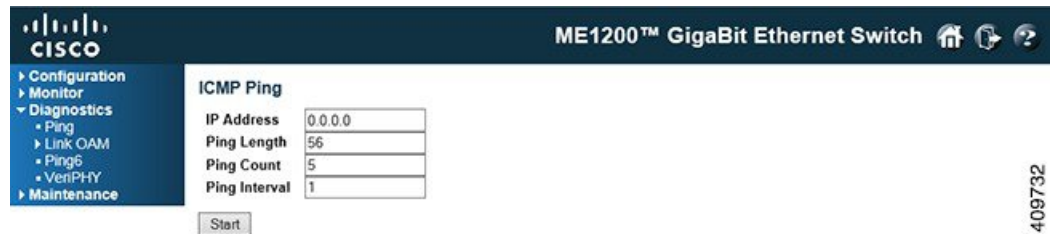
Diagnostics

The Diagnostics feature available on the ME 1200 Web GUI allows you to perform diagnostic procedures on the ME 1200 switch.

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Ping

This option allows you to issue ICMP PING packets to troubleshoot IP connectivity issues.



After you press **Start** button, ICMP packets are transmitted, and the sequence number and round trip time are displayed upon reception of a reply. The amount of data received inside of an IP packet of type ICMP ECHO_REPLY will always be 8 bytes more than the requested data space (the ICMP header). The page refreshes automatically until responses to all packets are received, or until a timeout occurs.

```
PING server 10.10.132.20, 56 bytes of data.  
64 bytes from 10.10.132.20: icmp_seq=0, time=0ms  
64 bytes from 10.10.132.20: icmp_seq=1, time=0ms  
64 bytes from 10.10.132.20: icmp_seq=2, time=0ms  
64 bytes from 10.10.132.20: icmp_seq=3, time=0ms  
64 bytes from 10.10.132.20: icmp_seq=4, time=0ms  
Sent 5 packets, received 5 OK, 0 bad
```

Link OAM MIB Retrieval

This option allows you to retrieve the local or remote OAM MIB variable data on a particular port. Select the appropriate radio button and enter the port number of the switch to retrieve the content of interest. Click on the **Start** button to retrieve the content. Click on the **New Retrieval** button to retrieve another content of interest.

Ping6

This option allows you to issue ICMPv6 PING packets to troubleshoot IPv6 connectivity issues. After you press Start, ICMPv6 packets are transmitted, and the sequence number and round trip time are displayed upon reception of a reply. The page refreshes automatically until responses to all packets are received, or until a timeout occurs.

```
PING6 server ff02::2, 56 bytes of data.
64 bytes from fe80::219:5bff:fe2f:b47: icmp_seq=0, time=10ms
64 bytes from fe80::215:58ff:feed:69dd: icmp_seq=0, time=10ms
64 bytes from fe80::219:5bff:fe2f:b47: icmp_seq=1, time=0ms
64 bytes from fe80::215:58ff:feed:69dd: icmp_seq=1, time=0ms
64 bytes from fe80::219:5bff:fe2f:b47: icmp_seq=2, time=0ms
64 bytes from fe80::215:58ff:feed:69dd: icmp_seq=2, time=0ms
64 bytes from fe80::219:5bff:fe2f:b47: icmp_seq=3, time=0ms
64 bytes from fe80::215:58ff:feed:69dd: icmp_seq=3, time=0ms
64 bytes from fe80::219:5bff:fe2f:b47: icmp_seq=4, time=0ms
64 bytes from fe80::215:58ff:feed:69dd: icmp_seq=4, time=0ms
Sent 5 packets, received 10 OK, 0 bad
```

You can configure the following properties of the issued ICMP packets.

- **IP Address:** The destination IP Address.
- **Ping Length:** The payload size of the ICMP packet. Values range from 2 bytes to 1452 bytes.
- **Ping Count:** The count of the ICMP packet. Values range from 1 time to 60 times.

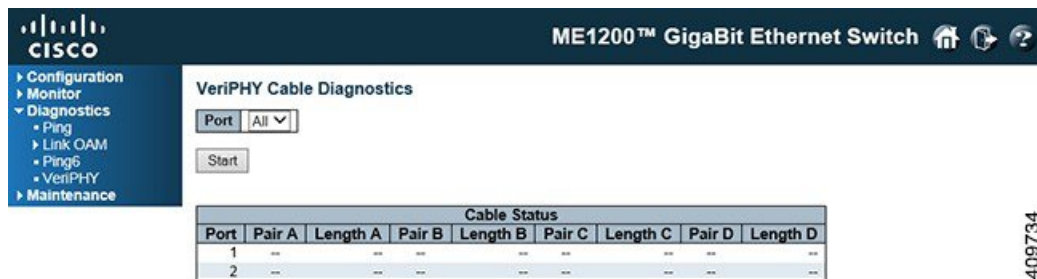
- **Ping Interval:** The interval of the ICMP packet. Values range from 0 second to 30 seconds
- **Egress Interface** (Only for IPv6): The VLAN ID (VID) of the specific egress IPv6 interface which ICMP packet goes. The given VID ranges from 1 to 4094 and will be effective only when the corresponding IPv6 interface is valid. When the egress interface is not given, PING6 finds the best match interface for destination.

Do not specify egress interface for loopback address.

Do specify egress interface for link-local or multicast address.

VeriPHY

This option is used for running the VeriPHY Cable Diagnostics for 10/100 and 1G copper ports.



Press the **Start** button to run the diagnostics. This will take approximately 5 seconds. If all ports are selected, this can take approximately 15 seconds. When completed, the page refreshes automatically, and you can view the cable diagnostics results in the cable status table. Note that VeriPHY is only accurate for cables of length 7 - 140 meters.

10 and 100 Mbps ports will be linked down while running VeriPHY. Therefore, running VeriPHY on a 10 or 100 Mbps management port will cause the switch to stop responding until VeriPHY is complete.

- **Port:** The port where you are requesting VeriPHY Cable Diagnostics.
- **Port:** Port number.
- **Pair:** The status of the cable pair.

OK	Correctly terminated pair
Open	Open pair
Short	Shorted pair
Short A	Cross-pair short to pair A
Short B	Cross-pair short to pair B
Short C	Cross-pair short to pair C
Short D	Cross-pair short to pair D
Cross A	Abnormal cross-pair coupling with pair A
Cross B	Abnormal cross-pair coupling with pair B

Cross C	Abnormal cross-pair coupling with pair C
Cross D	Abnormal cross-pair coupling with pair D

- **Length:** The length (in meters) of the cable pair. The resolution is 3 meters.