



Network Switch CLI Guide

EEE Commands

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EEE Commands

eee enable (global)

Syntax	eee enable no eee enable
Parameters	-
Default Configuration	Enabled.
Command Mode	Global configuration mode.
Usage	To enable the EEE mode globally, use the eee enable Global Configuration command. To disable the mode, use the no format of the command.
Example	switchxxxxxx(config)# eee enable
User Guideline	In order for EEE to work, the device at the other end of the link must also support EEE and have it enabled. In addition, for EEE to work properly, auto-negotiation must be enabled; however, if the port speed is negotiated as 1 Giga, EEE always works regardless of whether the auto-negotiation status is enabled or disabled. If auto-negotiation is not enabled on the port and its speed is less than 1 Giga, the EEE operational status is disabled.

eee enable (interface)

Syntax	eee enable no eee enable
Parameters	-
Default Configuration	Enabled.
Command Mode	Interface (Ethernet) Configuration mode
Usage	To enable the EEE mode on an Ethernet port, use the eee enable Interface Configuration command. To disable the mode, use the no format of the command.
Example	switchxxxxxx(config)# interface te1/0/1 switchxxxxxx(config-if)# eee enable
User Guideline	If auto-negotiation is not enabled on the port and its speed is 1 Giga, the EEEoperational status is disabled.

eee lldp enable

Syntax	eee lldp enable no eee lldp enable
Parameters	-
Default Configuration	Enabled.
Command Mode	Interface (Ethernet) Configuration mode.
Usage	To enable EEE support by LLDP on an Ethernet port, use the eee lldp enable Interface Configuration command. To disable the support, use the no format of the command.
Example	switchxxxxxx(config)# interface te1/0/1 switchxxxxxx(config-if)# eee lldp enable
User Guideline	Enabling EEE LLDP advertisement enables devices to choose and change systemwake-up times in order to get the optimal energy saving mode.

show eee

Syntax	show eee [interface-id]
Parameters	interface-id —(Optional) Specify an Ethernet port.
Default Configuration	None.
Command Mode	Privileged EXEC mode.
Usage	Use the show eee EXEC command to display EEE information.
Example	<p>Example 1 - The following displays brief Information about all ports.</p> <pre>switchxxxxx# show eee EEE globally enabled EEE Administrate status is enabled on ports: te1/0/1-2, te1/0/4 EEE Operational status is enabled on ports: te1/0/1-2, te1/0/4 EEE LLDP Administrate status is enabled on ports: te1/0/1-3 EEE LLDP Operational status is enabled on ports: te1/0/1-2</pre> <p>Example 2 - The following is the information displayed when a port is in the Not Present state; no information is displayed if the port supports EEE.</p> <pre>switchxxxxx# show eee te1/0/1 Port Status: notPresent EEE Administrate status: enabled EEE LLDP Administrate status: enabled</pre> <p>Example 3 - The following is the information displayed when the port is in status DOWN.</p> <pre>switchxxxxx# show eee te1/0/1 PortStatus:DOWN EEE capabilities: Speed10M:EEEnotsupported Speed100M: EEE supported Speed1G: EEE supported Speed10G:EEEnotsupported EEE Administrate status: enabled EEE LLDP Administrate status:enabled</pre> <p>Example 4 - The following is the information displayed when the port is in statusUP and does not support EEE.</p> <pre>switchxxxxx# show eee te1/0/2 Port Status: UP EEE capabilities: Speed10M:EEEnotsupported Speed100M: EEE supported Speed1G: EEE supported Speed10G:EEEnotsupported</pre>

Current port speed: 1000Mbps
 EEEAdministratstatus:enabled
 EEE LLDP Administrate status: enabled

Example 5 - The following is the information displayed when the neighbor doesnot support EEE.

switchxxxxx# **show eee te1/0/4**

Port Status: UP EEE
 Capabilities:
 Speed10M:EEEnotsupported
 Speed 100M: EEE supported
 Speed 1G: EEE supported Speed
 10G:EEEnotsupported
 Currentportspeed:1000MbpsEEE
 Remote status: disabled
 EEE Administrate status: enabled
 EEEOperationalstatus:disabled(neighbordoesnotsupport)EEE LLDP
 Administrate status:enabled
 EEELLDPOperationalstatus:disabled

Example 6 - The following is the information displayed when EEE is disabled on theport.

switchxxxxx# **show eee te1/0/1**

Port Status: UP EEE
 Capabilities:
 Speed10M:EEEnotsupported
 Speed 100M: EEE supported
 Speed 1G: EEE supported Speed
 10G:EEEnotsupported
 Current port speed: 1000Mbps EEE
 Administratstatus:disabledEEE
 Operational status: disabled
 EEELLDPAdministratstatus:enabledEEE
 LLDPOperationalstatus:disabled

Example 7 - The following is the information displayed when EEE is running on theport, and EEE LLDP is disabled.

switchxxxxx# **show eee te1/0/2**

Port Status: UP EEE
 Capabilities:
 Speed10M:EEEnotsupported
 Speed 100M: EEE supported
 Speed 1G: EEE supported Speed
 10G:EEEnotsupported
 Currentportspeed:1000MbpsEEE
 Remote status: enabled
 EEEAdministratstatus:enabledEEE
 Operational status: enabled
 EEELLDPAdministratstatus:disabledEEELLDP
 Operationalstatus:disabledResolved Tx Timer:10usec
 Local Tx Timer: 10 usec
 ResolvedTimer:25usecLocal
 RxTimer:20usec

Example 8 – The following is the information displayed when EEE and EEE LLDP are running on the port.

```
switchxxxxx# show eee te1/0/3
Port Status: UP EEE
Capabilities:
Speed10M:EEEnotsupportedSpeed 100M: EEE supportedSpeed 1G: EEE
supported Speed10G:EEEnotsupported
Currentportspeed:1000MbpsEEE
Remote status: enabled
EEEAdministratstatus:enabled
EEEOperational status: enabled
EEELLDPAdministratstatus:enabledEEE
LLDPOperationalstatus:enabledResolved Tx
Timer:10usec
Local Tx Timer: 10 usec
Remote Rx Timer: 5 usec
Resolved Timer: 25 usecLocal
Rx Timer: 20 usecRemoteTx
Timer:25usec
```

Example 9 – The following is the information displayed when EEE is running on the port, EEE LLDP is enabled but not synchronized with the remote link partner.

```
switchxxxxx# show eee te1/0/4
Port Status: up EEE
capabilities:
Speed 100M: EEE supportedSpeed 1G: EEE supported Speed10G:EEEnot
supported
Currentportspeed:1000MbpsEEE
Remote status: enabled
EEEAdministratstatus:enabledEEE Operational status: enabled
EEELLDPAdministratstatus:enabledEEELLDP
Operational status: disabledResolved Tx Timer: 64
Local Tx Timer: 64 ResolvedRxTimer:16Local Rx Timer:16
```

Example 10 – The following is the information displayed when EEE and EEE LLDP are running on the port.

```
show eee te1/0/3
Port Status: UP EEE
Capabilities:
Speed10M:EEEnotsupportedSpeed 100M: EEE supportedSpeed 1G: EEE
supported Speed10G:
EEEnotsupported
Currentportspeed:1000Mbps
EEERemote status: enabled
EEEAdministratstatus:enabled
EEE Operational status: enabled
EEELLDPAdministratstatus:enabled
EEELLDPOperationalstatus:enabledResolved
Tx Timer:10usec
LocalTxTimer:10usec
```

	RemoteRxTimer:5usec ResolvedTimer:25usec LocalRxTimer:20usecRemote TxTimer:25usec
User Guideline	If the port is a 10G port, but the link speed is 1G, the EEE Remote status cannot beresolved (and displayed).