



CHAPTER 15

Cisco 7600 Ethernet Services Plus Line Cards

This chapter describes the Cisco 7600 Ethernet Services Plus (ES+) line cards. It contains the following sections:

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- [Cisco 7600 ES+ 20G3C, -20G3CXL Line Card LEDs, page 15-3](#)
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Cisco 7600 Ethernet Services Plus Line Cards

The Cisco 7600 Series ES+ line cards are a multiple-fabric, fixed-port Ethernet line card for the Cisco 7600 series routers that are capable of 40 Gbps full-duplex traffic forwarding using a fixed port interface design. The Cisco 7600 Series ES+ line card versions are:

- 40-port version: 7600-ES+40G3C
- 40-port version: 7600-ES+40G3CXL
- 20-port version: 7600-ES+20G3C
- 20-port version: 7600-ES+20G3CXL
- 4-port version: 7600-ES+4TG3C
- 4-port version: 7600-ES+4TG3CXL
- 2-port version: 7600-ES+2TG3C
- 2-port version: 7600-ES+2TG3CXL

The difference between the versions are the link interface daughter cards that accept small form-factor pluggable (SFP or XFP¹) optical transceivers. Additionally, each of the versions has a common baseboard card and a control processor daughter card.

The SFP and XFP modules allow the line cards to be configured for different media types (copper or fiber) and different optical requirements (single mode fiber or multimode fiber) as available.

1. SFP modules are optics modules with speeds lower than 10 Gbps; XFP modules are optics modules with speeds equal to or greater than 10 Gbps.

For information on which SFPs and XFPs are supported on the Cisco 7600 Series ES+ line cards, see the *Cisco 7600 Ethernet Services Plus Line Cards Hardware Installation Guide*. For information on configuring features supported on the Cisco 7600 Series ES+ line cards, refer to the *Cisco 7600 Ethernet Services Plus Line Cards Configuration Guide*.

Cisco 7600 ES+ 2TG3C, -3CXL Line Card LEDs

The Cisco 7600 ES+ 2TG3C, -3CXL line cards have three LEDs, as shown in [Figure 15-1](#) and [Figure 15-2](#). There is one Status LED and two A/L (Active Loopback) LEDs. [Table 15-1](#) provides LED descriptions.

Figure 15-1 Cisco 7600 ES+ 2TG3C

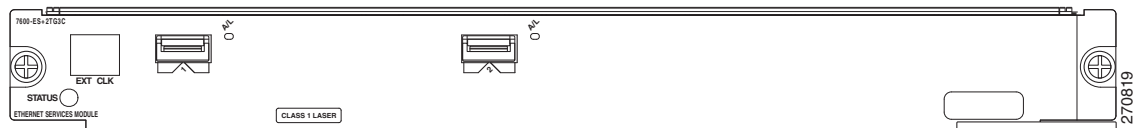
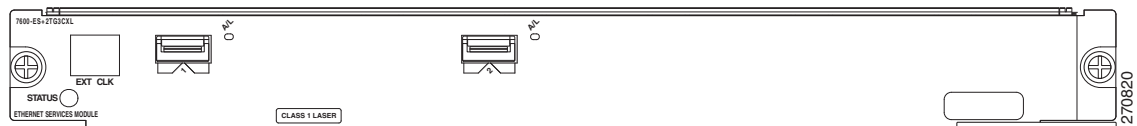


Figure 15-2 Cisco 7600 ES+ 2TG3CXL Faceplate



There is one line card Status LED and two port Status LEDs. [Table 15-1](#) provides LED descriptions.

Table 15-1 Cisco 7600 ES+ 2TG3C, -3CXL LEDs

LED Label	Color	State	Meaning
STATUS	Red	On	The line card has encountered an error.
	Green	On	The line card is online.
	Yellow	On	The line card is loading.
	Off	Off	The line card is powered off.
A/L	Amber	On	The port is enabled but there is not a valid Ethernet link.
	Green	On	The port is enabled and a valid Ethernet link has been established.
	Green and Amber	On	Undefined condition.
	Off	Off	The port is not enabled by software.

Cisco 7600 ES+ 4TG3C, -4TG3CXL Line Card LEDs

The Cisco 7600-ES+ 4TG3C, -4TG3CXL line cards have three LEDs, as shown in [Figure 15-3](#) and [Figure 15-4](#). There is one Status LED and two A/L (Active Loopback) LEDs. [Table 15-2](#) provides LED descriptions.

Figure 15-3 Cisco 7600 ES+ 4TG3C Faceplate

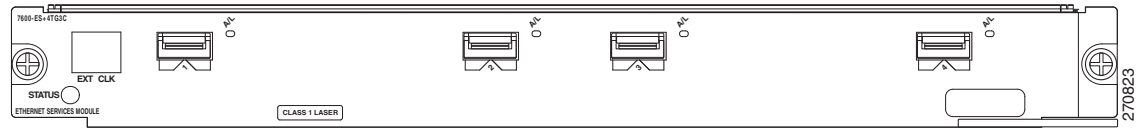
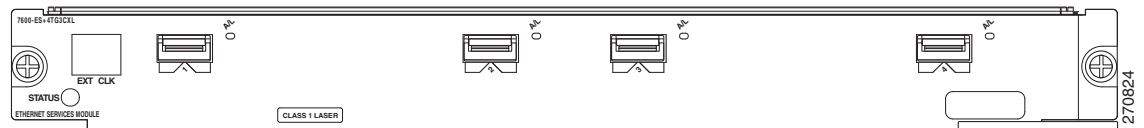


Figure 15-4 Cisco 7600 ES+ 4TG3CXL Faceplate



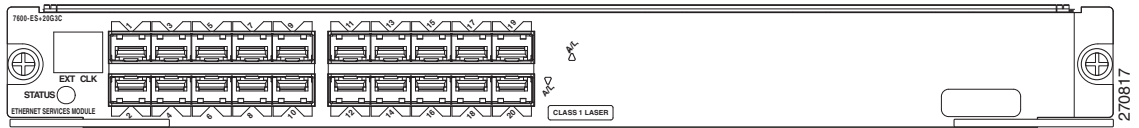
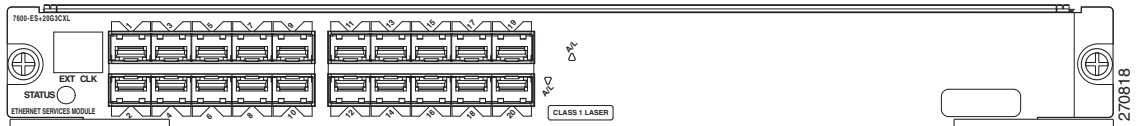
There is one line card Status LED and two port Status LEDs. [Table 15-1](#) provides LED descriptions.

Table 15-2 Cisco 7600 ES+ 4TG3C, -4TG3CXL LEDs

LED Label	Color	State	Meaning
STATUS	Red	On	The line card has encountered an error.
	Green	On	The line card is online.
	Yellow	On	The line card is loading.
	Off	Off	The line card is powered off.
A/L	Amber	On	The port is enabled but there is not a valid Ethernet link.
	Green	On	The port is enabled and a valid Ethernet link has been established.
	Green and Amber	On	Undefined condition.
	Off	Off	The port is not enabled by software.

Cisco 7600 ES+ 20G3C, -20G3CXL Line Card LEDs

The Cisco 7600 ES+ 20G3C, -20G3CXL line cards have 21 LEDs, as shown in [Figure 15-5](#) and [Figure 15-6](#).

Figure 15-5 Cisco 7600 ES+ 20G3C Line Card Faceplate**Figure 15-6** Cisco 7600 ES+ 20G3CXL Line Card Faceplate

There is one line card STATUS LED and twenty A/L (Active Loopback) LEDs. [Table 15-3](#) provides LED descriptions.

Table 15-3 Cisco 7600 ES+ 20G3C, -20G3CXL Line Card LEDs

LED Label	Color	State	Meaning
STATUS	Red	On	The line card has encountered an error.
	Green	On	The line card is online.
	Yellow	On	The line card is loading.
	Off	Off	The line card is powered off.
A/L	Amber	On	The port is enabled but there is not a valid Ethernet link.
	Green	On	The port is enabled and a valid Ethernet link has been established.
	Green and Amber	On	Undefined condition.
	Off	Off	The port is not enabled by software.

Cisco 7600 ES+ 40G3C, -40G3CXL Line Card LEDs

The Cisco 7600 ES+ 40G3C, -40G3CXL line cards have 21 LEDs, as shown in [Figure 15-7](#) and [Figure 15-8](#).

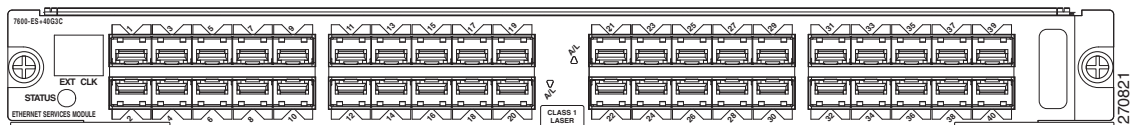
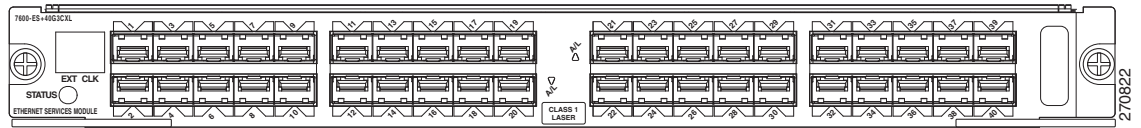
Figure 15-7 Cisco 7600 ES+ 40G3C Line Card Faceplate

Figure 15-8 Cisco 7600 ES+ 40G3CXL Line Card Faceplate

There is one line card STATUS LED and twenty A/L (Active Loopback) LEDs. [Table 15-4](#) provides LED descriptions.

Table 15-4 Cisco 7600 ES+ 40G3C, -40G3CXL Line Card LEDs

LED Label	Color	State	Meaning
STATUS	Red	On	The line card has encountered an error.
	Green	On	The line card is online.
	Yellow	On	The line card is loading.
	Off	Off	The line card is powered off.
A/L	Amber	On	The port is enabled but there is not a valid Ethernet link.
	Green	On	The port is enabled and a valid Ethernet link has been established.
	Green and Amber	On	Undefined condition.
	Off	Off	The port is not enabled by software.

