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## Overview

Cisco Catalyst WS-X4748-SFP-E line-card is designed for requiring line-rate capability for enterprise, mid-market and commercial core and distribution deployments. Integrated 48 SFP nonblocking ports with IEEE802.1AE Fiber Encryption and Cisco TrustSec capability in hardware, WS-X4748-SFP-E line-card delivers high-performance and secures user experience. This WS-X4748-SFP-E is similar with the WS-X4748-SFP-E=. The WS-X4748-SFP-E= is a spare one.

### Quick Specs

Figure 1 shows the appearance of WS-X4748-SFP-E.



Table 1 shows the Quick Specs.

<b>Product Code</b>	WS-X4748-SFP-E
<b>Line-Card Type</b>	Cisco Catalyst 4500 47xx E-Series Line Cards
<b>Per-Slot Bandwidth</b>	48 Gbps
<b>Chassis Support</b>	Cisco Catalyst 4503-E, 4506-E, 4507R+E, and 4510R+E
<b>Supervisor Support</b>	Supervisor Engine 8-E, Supervisor Engine 8L-E, Supervisor Engine 7-E, Supervisor Engine 7L-E
<b>per-slot capacity</b>	48 gigabits
<b>Max Rated Power (W)</b>	92
<b>Rated MTBF (Hours)</b>	876,100
<b>Modules</b>	·48 * SFP Gigabit nonblocking Ethernet ports ·Support 1G/100FX SFP (mix and match as well) at line rate
<b>Cisco IOS Software</b>	Cisco IOS Software Release IOS-XE3.5.0E/15.2(1)E or later
<b>hardware</b>	IEEE 802.1AE Fiber Encryption and Cisco TrustSec capability in hardware
<b>Enterprise</b>	Providing Fiber to the Desktop (FTTD), for deployments where non-blocking is mandatory requirement
<b>Service provider</b>	GE aggregation for DSLAM/PON/mobile data backhaul; Point-to-Point fiber to the home (FTTH) or building (FTTB) for residential and business applications
<b>L2-4 Jumbo Frame support</b>	up to 9216 bytes

All power numbers shown in Table 1 are maximum values recommended for facility power and cooling capacity planning. These figures are not indicative of the actual power draw during operation. Typical power draw is about 20 percent lower than the maximum value shown.

## Compare to Similar Items

Table 2 shows the comparison of WS-X4748-SFP-E, WS-X4712-SFP-E and WS-X4712-SFP+E.

Product Code	WS-X4748-SFP-E	WS-X4712-SFP-E	WS-X4712-SFP+E
Line-Card Type	Cisco Catalyst 4500 47xx E-Series Line Cards	Cisco Catalyst 4500 47xx E-Series Line Cards	Cisco Catalyst 4500 47xx E-Series Line Cards
Per-Slot Bandwidth	48 Gbps	48 Gbps	48 Gbps
Chassis Support	Cisco Catalyst 4503-E, 4506-E, 4507R+E, and 4510R+E	Cisco Catalyst 4503-E, 4506-E, 4507R+E, and 4510R+E	Cisco Catalyst 4507R-E and 4510R-E
per-slot capacity	48 gigabits	12 gigabits	48 gigabits
Max Rated Power (W)	92	25	90
Rated MTBF (Hours)	876,100	1,329,480	387,172
Modules	<ul style="list-style-type: none"> <li>·48 * SFP Gigabit nonblocking Ethernet ports</li> <li>·Support 1G/100FX SFP (mix and match as well) at line rate</li> </ul>	<ul style="list-style-type: none"> <li>·12 Port nonblocking SFP line card</li> <li>·Support 1G/100FX SFP (mix and match as well) at line rate</li> </ul>	<ul style="list-style-type: none"> <li>·Up to 12 ports 10GE SFP+ (10GBASE-R) or 12 ports GE SFP (1GBASE-X)</li> <li>·SFP+ and SFP can be used simultaneously on the same line card without any restrictions</li> </ul>

## Get More Information

Do you have any question about the Cisco WS-X4748-SFP-E?

Contact us now via Live Chat or [support@netgenetics.com](mailto:support@netgenetics.com)

## Specification

<b>WS-X4748-SFP-E Specifications</b>	
<b>Port Information</b>	
Type	E-Series Gigabit Ethernet SFP Line Cards
Number of Ports	48
Port Speed	1GbE/100Mbps
Port Type	Pluggables
Wire Rate	1:1
<b>Feature</b>	
Standards	<ul style="list-style-type: none"> <li>● Gigabit Ethernet: IEEE 802.3z, IEEE 802.3x, IEEE 802.3ab, IEEE 803.3at, IEEE 802.3af, IEEE 802.3az</li> <li>● 1000BASE-X (GBIC), 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-ZX, CWDM</li> </ul>
EtherChannel Technology	<ul style="list-style-type: none"> <li>● Gigabit EtherChannel: All 1000 Mbps ports</li> <li>● 10 Gigabit EtherChannel: All 10Gbps ports</li> <li>● IEEE 802.3ad (Link Aggregation Control Protocol): All 1000 Mbps ports</li> <li>● Port Aggregation Protocol (PagP): Yes</li> <li>● Number of ports per tuple: 8</li> <li>● EtherChannel and IEEE 802.3ad technology across line cards: Yes</li> </ul>
Physical Dimensions	<ul style="list-style-type: none"> <li>● Occupies one slot in the Cisco Catalyst 4500 Series platform</li> <li>● Dimensions (H x W x D): 1.2 x 14.25 x 10.75 in. (3.0 x 36.2 x 27.3 cm)</li> </ul>

Environmental Conditions	<ul style="list-style-type: none"> <li>• Operating temperature: 32° to 104°F (0° to 40°C)</li> <li>• Storage temperature: -40° to 167°F (-40° to 75°C)</li> <li>• Relative humidity: 10 to 90%, noncondensing</li> <li>• Operating altitude: -60 to 3000m</li> </ul>
Safety Conditions	Fiber optic lasers: Class 1 laser products
Safety Certifications	<ul style="list-style-type: none"> <li>• UL 1950</li> <li>• EN 60950</li> <li>• CSA-C22.2 no 950</li> <li>• IEC 950</li> <li>• IEC 60950-1, 2nd Ed. EN 60950-1, 2nd Ed. UL 60950-1, 2nd Ed. CAN/CSA-C22.2 No. 60950-1 2nd Ed. 11</li> </ul>
Electromagnetic Emissions Certifications	<ul style="list-style-type: none"> <li>• FCC 15J Class A</li> <li>• VCCI Class A</li> <li>• CE Marking</li> <li>• EN 55022 Class A</li> <li>• EN 55024 Class A</li> <li>• CISPR 22 Class A</li> <li>• AS/NZ 3548</li> <li>• NEBS Level 3 (GR-1089-CORE, GR-63-CORE)</li> <li>• ETSI ETS-300386-2</li> <li>• EN 50121-4</li> </ul>
ROHS Compliance	ROHS5
<b>Power and MTBF Information</b>	
Max Rated Power (W)	92
Rated MTBF (Hours)	876,100

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