060441-10 Rev. A October 2016

OmniSwitch 6250/6350/ 6450 Transceivers Guide



enterprise.alcatel-lucent.com

This user guide contains transceiver specifications and compatibility information for the OmniSwitch 6250/6350/6450 switches. The information described in this guide is subject to change without notice.

Attention: Use of any transceivers other than those part numbers listed in the Compatibility Matrices is prohibited. Failure to comply with these matrices is not guaranteed for proper performance and may result in voiding the warranty for the affected platforms.

enterprise.alcatel-lucent.com Alcatel-Lucent and the Alcatel-Lucent Enterprise logo are trademarks of Alcatel-Lucent. To view other trademarks used by affiliated companies of ALE Holding, visit: enterprise.alcatel-lucent.com/trademarks. All other trademarks are the property of their respective owners. The information presented is subject to change without notice. Neither ALE Holding nor any of its affiliates assumes any responsibility for inaccuracies contained herein. (2016)



26801 West Agoura Road Calabasas, CA 91301

Service & Support Contact Information

North America: 800-995-2696 Latin America: 877-919-9526 EMEA : +800 00200100 (Toll Free) or +1(650)385-2193 Asia Pacific: +65 6240 8484 Web: support.esd.alcatel-lucent.com Email: ebg_global_supportcenter@al-enterprise.com

Contents

	About This Guide	iv
	Supported Platforms	iv
	Who Should Read this Manual?	v
	When Should I Read this Manual?	v
	What is Not in this Manual?	v
	How is the Information Organized?	v
	Documentation Roadmap	vi
	Related Documentation	vii
	Product Documentation	viii
	Technical Support	viii
Chapter 1	Small Form-Factor Pluggables (SFPs)	
	In This Chapter	1-1
	SFP MSA Specification	
	SFP Transceiver Installation and Removal	
	Gigabit Ethernet Transceivers	
	100 Mbit Ethernet Transceivers	1-11
	Dual-Speed Ethernet Transceivers	
	10-Gigabit SFP+ Transceivers	1-16
Chapter 2	Transceiver Compatibility Matrix	1-21
	OmniSwitch 6250	
	OmniSwitch 6350	
	OmniSwitch 6450	

About This Guide

This *OmniSwitch Transceivers Guide* provides specifications and compatibility information on the supported transceivers for the OmniSwitch 6250, OmniSwitch 6350 and OmniSwitch 6450.

Supported Platforms

The information in this guide applies to the following products:

- OmniSwitch 6250
- OmniSwitch 6350
- OmniSwitch 6450

Who Should Read this Manual?

The audience for this user guide is network administrators and IT support personnel who need to provide network connectivity using transceivers on an OmniSwitch.

When Should I Read this Manual?

Read this guide as soon as you are ready to integrate your OmniSwitch into your network and you are ready to provide connectivity using the supported transceivers. You should have already stepped through the first login procedures and read the brief software overviews in the appropriate *OmniSwitch 6250/6350/6450 Hardware Guide*.

This guide includes information about the supported OmniSwitch transceivers.

- Transceiver specifications
- Transceiver compatibility information

What is Not in this Manual?

Procedures for switch management methods, such as CLI, web-based (WebView or OmniVista) or SNMP, are outside the scope of this guide.

For information on WebView and SNMP switch management methods consult the *OmniSwitch* 6250/6350/6450 Switch Management Guide. Information on using WebView and OmniVista can be found in the context-sensitive on-line help available with those network management applications.

This guide is designed to provide transceiver specification and compatibility information only and is not intended as a reference for any CLI commands or configuration information. Refer to the Documentation Roadmap for a list of available user guides.

How is the Information Organized?

Chapters in this guide are broken down by transceiver type. Additional sub-sections are provided for the various types of transceivers.

Specification Information. Each transceiver has an associated table providing individual specifications for all supported transceivers.

Compatibility Information. A compatibility chart is provided for each transceiver specifying which modules or switch the transceiver is supported on.

Documentation Roadmap

The OmniSwitch user documentation suite was designed to supply you with information at several critical junctures of the configuration process. The following section outlines a roadmap of the manuals that will help you at each stage of the configuration process. Under each stage, we point you to the manual or manuals that will be most helpful to you.

Stage 1: Using the Switch for the First Time

Pertinent Documentation: Hardware Users Guide Release Notes

The *Hardware Users Guide* provides the basic information you need to unpack and identify the components of your shipment. It provides information on unpacking the switch, unlocking access control, setting the switch's IP address, and setting up a password. It also includes overview information on fundamental aspects of the switch, such as hardware LEDs, the software directory structure, CLI conventions, and webbased management.

At this time you should also familiarize yourself with the Release Notes that accompanied your switch. This document includes important information on feature limitations that are not included in other user guides.

Stage 2: Gaining Familiarity with Basic Switch Functions

Pertinent Documentation: Hardware Users Guides Switch Management Guide OmniSwitch Transceivers Guide

Once you have your switch up and running, you will want to begin investigating basic aspects of its hardware and software. Information about switch hardware is provided in the *Hardware Guide*. This guide provide specifications, illustrations, and descriptions of all hardware components, such as chassis, power supplies, Chassis Management Modules (CMMs), Network Interface (NI) modules, and cooling fans. It also includes steps for common procedures, such as removing and installing switch components.

The *Switch Management Guide* is the primary users guide for the basic software features on a single switch. This guide contains information on the switch directory structure, basic file and directory utilities, switch access security, SNMP, and web-based management. It is recommended that you read this guide before connecting your switch to the network.

Stage 3: Integrating the Switch Into a Network

Pertinent Documentation: Network Configuration Guide

When you are ready to connect your switch to the network, you will need to learn how the OmniSwitch implements fundamental software features, such as 802.1Q, VLANs, Spanning Tree, and network routing protocols. The *Network Configuration Guide* contains overview information, procedures, and examples on how standard networking technologies are configured in the OmniSwitch.

Anytime

The *OmniSwitch CLI Reference Guide* contains comprehensive information on all CLI commands supported by the switch. This guide includes syntax, default, usage, example, related CLI command, and CLI-to-MIB variable mapping information for all CLI commands supported by the switch. This guide can be consulted anytime during the configuration process to find detailed and specific information on each CLI command.

Related Documentation

The following are the titles and descriptions of all the related the OmniSwitch 6250/6350/6450 user manuals:

- OmniSwitch 6250 Hardware Users Guide
- Detailed technical specifications and procedures for the chassis and components. Also includes comprehensive information on assembling and managing stacked configurations.
- OmniSwitch 6350 Hardware Users Guide
- Detailed technical specifications and procedures for the chassis and components. Also includes comprehensive information on assembling and managing stacked configurations.
- OmniSwitch 6450 Hardware Users Guide

Detailed technical specifications and procedures for the chassis and components. Also includes comprehensive information on assembling and managing stacked configurations.

• OmniSwitch 6250/6350/6450 CLI Reference Guide

Complete reference to all CLI commands supported on the OmniSwitch Series switches. Includes syntax definitions, default values, examples, usage guidelines and CLI-to-MIB variable mappings.

• OmniSwitch 6250/6350/6450 Switch Management Guide

Includes procedures for readying an individual switch for integration into a network. Topics include the software directory architecture, image rollback protections, authenticated switch access, managing switch files, system configuration, using SNMP, and using web management software (WebView).

• OmniSwitch 6250/6350/6450 Network Configuration Guide

Includes network configuration procedures and descriptive information on all the major software features and protocols included in the base software package. Chapters cover Layer 2 information (Ethernet and VLAN configuration), Layer 3 information (routing protocols, such as RIP), security options (authenticated VLANs), Quality of Service (QoS), and link aggregation.

• OmniSwitch 6250/6350/6450 Transceivers Guide

Includes transceiver specifications and product compatibility information.

• Technical Tips, Field Notices

Includes information published by Alcatel-Lucent's Customer Support group.

Release Notes

Includes critical open Problem Reports, feature exceptions, and other important information on the features supported in the current release and any limitations to their support.

Product Documentation

All products are shipped with a Product Documentation Card that provides details for downloading documentation for all OmniSwitch and other Alcatel-Lucent data enterprise products. All user guides for the OmniSwitch Series are included on the Alcatel-Lucent public website. This website also includes user guides for other Alcatel-Lucent Enterprise products. The latest user guides can be found on our website at:

http://enterprise.alcatel-lucent.com/UserGuides

Technical Support

An Alcatel-Lucent service agreement brings your company the assurance of 7x24 no-excuses technical support. You'll also receive regular software updates to maintain and maximize your Alcatel-Lucent product's features and functionality and on-site hardware replacement through our global network of highly qualified service delivery partners. Additionally, with 24-hour-a-day access to Alcatel-Lucent's Service and Support web page, you'll be able to view and update any case (open or closed) that you have reported to Alcatel-Lucent's technical support, open a new case or access helpful release notes, technical bulletins, and manuals. For more information on Alcatel-Lucent's Service Programs, see our web page at support.esd.alcatel-lucent.com, call us at 1-800-995-2696, or email us at ebg_global_supportcenter@al-enterprise.com.

1 Small Form-Factor Pluggables (SFPs)

OmniSwitch switches use both copper-based and fiber-based optical Small Form Factor Pluggable (SFP) transceivers. SFPs are fully hot-swappable and are available for both short-reach and long-reach applications. Copper-based and fiber-based optical SFPs can be mixed on the same module.

In This Chapter

This chapter describes the technical specifications for all the OmniSwitch supported SFP transceivers. For additional details about OmniSwitch modules, see the appropriate *OmniSwitch Hardware Guide*.

Transceiver specifications in this chapter include:

- SFP MSA Specifications. See "SFP MSA Specification" on page 1-2
- SFP Transceiver Installation. See "SFP Transceiver Installation and Removal" on page 1-3
- Gigabit Ethernet Transceivers. See "Gigabit Ethernet Transceivers" on page 1-5.
- 100 Mbit Ethernet Transceivers. See "100 Mbit Ethernet Transceivers" on page 1-11.
- Dual-Speed Ethernet Transceivers. See "Dual-Speed Ethernet Transceivers" on page 1-14.
- 10-Gigabit SFP+ Transceivers. See "10-Gigabit SFP+ Transceivers" on page 1-16

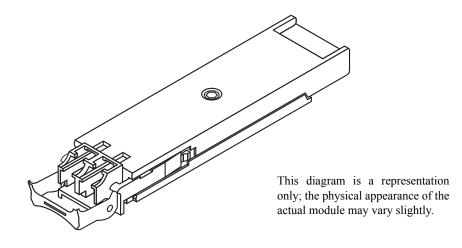
For information on installing and managing OmniSwitch hardware, see the appropriate *Hardware Users Guide*.

For information on OmniSwitch SFP compatibility, see "Transceiver Compatibility Matrix" on page 2-21.

SFP MSA Specification

The Small Form-Factor Pluggable (SFP) MSA (Multi Source Agreement) is a specification for a common interface for optical modular transceivers. The SFP connector consists of a 20-pin receptacle and an SFP housing cage. The connector provides the interface for the hot pluggable SFP module. Each SFP module contains a serial interface to provide identification information that describes the SFP capabilities, stand interfaces, manufacturer and other information.

For information on installing SFPs, refer to the documentation included with the transceiver.



Small Form Factor Pluggable (SFP)

SFP Transceiver Installation and Removal

Follow the instructions below for the appropriate SFP type.

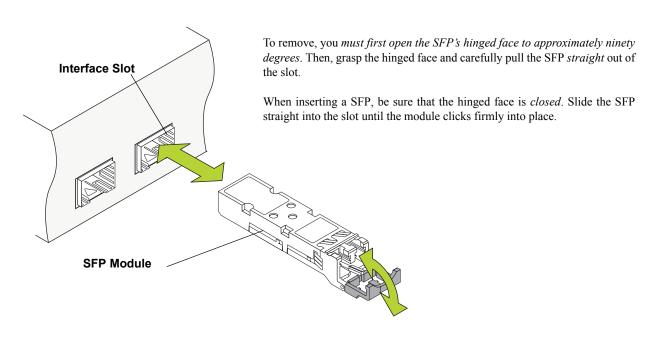
ESD Caution: Before handling the module, you must discharge all static electricity on your person to avoid Electrostatic Discharge (ESD) damage. If using a wrist strap, ensure that the wrist strap touches your skin. Attach the other end of the strap to the chassis. If your chassis provides a grounding lug, this can be used. Refer to your Hardware Users Guide for details.

If using a wrist strap, ensure that the wrist strap touches your skin. Attach the other end of the strap to the chassis. If your chassis provides a grounding lug, this can be used. Refer to your Hardware Users Guide for details.

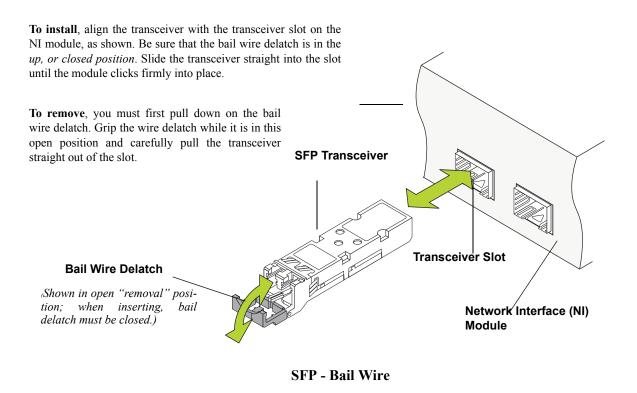
Dust Exposure: To reduce the risk of dust exposure and physical damage, be sure to replace the protective rubber cover (provided) when the SFP is not in use.

Eye Safety: SFP transceivers are international Class 1 laser products and are eye-safe devices *when operated within the limits of manufacturers' specifications.* Operating SFP transceivers in a manner inconsistent with intended usage and specification may result in hazardous radiation exposure.

Note: After removing a transceiver, wait for a minimum of 5 seconds before re-inserting any transceiver into the same port. This allows sufficient time for software to detect the removal of the transceiver. *Never force the transceiver in or out of the transceiver slot.*

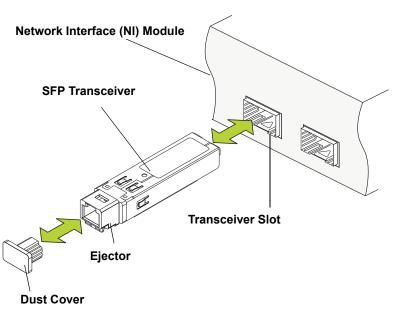


SFP - Hinged



To install, align the transceiver with the transceiver slot on the NI module, as shown. Carefully slide the transceiver back until it clicks into place; this is an indication that the connectors are firmly seated.

To remove, use the ejector tool (provided with each switch chassis) to push the transceiver's ejector button. The ejector button is located just below the transceiver port; refer to the diagram for more information. The transceiver will disengage from the connectors and eject slightly. Once disengaged, *use the clip end of the ejector tool* to carefully pull the transceiver straight out and away from the NI module.



SFP - Ejector Button

Gigabit Ethernet Transceivers

SFP-GIG-SX Gigabit SFP Optical Transceiver.	
Connector Type	LC
Standards Supported	802.3z, SFP MSA
Connections Supported	1000Base-SX
Fiber Type	MMF
Wavelength	850 nm
Optical Power Output	-9.5 to -4 dBm
Receiver Sensitivity	-17 dBm
Transmission Distance	~275 m on 62.5/125μm ~550 m on 50/125μm
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Supported (Alcatel-Lucent branded transceivers only)

SFP-GIG-LX

Gigabit SFP Optical Transceiver.

6 1	
Connector types	LC
Standards supported	802.3z, SFP MSA
Connections supported	1000Base-LX
Fiber Type	SMF
Wavelength	1310 nm
Optical Power Output	-9.5 to -3 dBm
Receiver Sensitivity	-20 dBm
Transmission Distance	~10 km
Operating Temperature	-40 °C to 85 °C / 0 °C to 70 °C
Digital Diagnostic Monitoring	Supported (Alcatel-Lucent branded transceivers only)

SFP-GIG-LH40

Gigabit SFP Optical Transceiver.

Connector Type	LC
Standards Supported	802.3z, SFP MSA
Connections Supported	1000Base-LH40
Fiber Type	SMF

SFP-GIG-LH40

Gigabit SFP Optical Transceiver.

Wavelength	1310 nm
Optical Power Output	-2 to +3 dBm
Reciever Sensitivity	-22 dBm
Transmission Distance	~40 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Supported

SFP-GIG-LH70

Gigabit SFP Optical Transceiver.

Connector Type	LC	
Standards Supported	802.3z, SFP MSA	
Connections Supported	1000Base-LH70	
Fiber Type	SMF	
Wavelength	1550 nm	
Optical Power Output	0 to +5 dBm	
Receiver Sensitivity	-22 dBm	
Transmission Distance	~70 km	
Operating Temperature	0 °C to 70 °C	
Digital Diagnostic Monitoring	Supported	

SFP-GIG-EXTND

Gigabit SFP Optical Transceiver.

Connector Type	LC
Standards Supported	802.3, SFP MSA
Connections Supported	-
Fiber Type	MMF
Wavelength	1310 nm
Saturation Power Output	0 dBm
Transmission Distance	~2 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Supported

SFP-GIG-T

Gigabit SFP	Copper	Transceiver.
0.840.10.11	e opper	

RJ-45
802.3z, SFP MSA
10/100/1000Base-T
CAT5, CAT5e, CAT6
~100 m
Not Supported

SFP-GIG-BX-D

Bi-Directional SFP Optical Transceiver.

Connector Type	LC
Standards Supported	802.3ah, SFP MSA
Connections Supported	1000Base-BX10
Fiber Type	SMF
Wavelength	Transmit: 1490 mm Receive: 1310 nm
Average Power Output	-9 to -3 dBm
Receiver Sensitivity	-19.5 dBm
Transmission Distance	~10 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Supported
Notes	Designed for use with SFP-GIG-BX-U

SFP-GIG-BX-U

Bi-Directional SFP Optical Transceiver.

Connector Type	LC
Standards Supported	802.3ah, SFP MSA
Connections Supported	1000Base-BX10
Fiber Type	SMF
Wavelength	Transmit: 1310 nm Receive: 1490 nm
Average Power Output	-9 to -3 dBm
Receiver Sensitivity	-19.5 dBm

SFP-GIG-BX-U

Bi-Directional SFP	Optical Transceiver.
---------------------------	----------------------

Transmission Distance	~10 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Supported
Notes	Designed for use with SFP-GIG-BX-D

SFP-GIG-BX-D20

Bi-Directional SFP Optical Transceiver.

Connector Type	LC
Standards Supported	802.3ah, SFP MSA
Connections Supported	1000Base-BX20
Fiber Type	SMF
Wavelength	Transmit: 1490 mm Receive: 1310 nm
Average Power Output	-8 to -3 dBm
Receiver Sensitivity	-23 dBm
Transmission Distance	~20 km
Operating Temperature	-5°C to 70°C
Digital Diagnostic Monitoring	Supported
Notes	Designed for use with SFP-GIG-BX-U20

SFP-GIG-BX-U20

Bi-Directional SFP Optical Transceiver.

Connector Type	LC
Standards Supported	802.3ah, SFP MSA
Connections Supported	1000Base-BX20
Fiber Type	SMF
Wavelength	Transmit: 1310 nm Receive: 1490 nm
Average Power Output	-8 to -3 dBm
Receiver Sensitivity	-23 dBm
Transmission Distance	~20 km
Operating Temperature	-5°C to 70°C
Digital Diagnostic Monitoring	Supported
Notes	Designed for use with SFP-GIG-BX-D20

SFP-GIG-BX-D40

Bi-Directional SFP Optical Transceiver.

Connector Type	LC
Standards Supported	802.3ah, SFP MSA
Connections Supported	1000Base-BX40
Fiber Type	SMF
Wavelength	Transmit: 1490 mm Receive: 1310 nm
Average Power Output	-2 to +3 dBm
Receiver Sensitivity	-23 dBm
Transmission Distance	~40 km
Operating Temperature	-5°C to 70°C
Digital Diagnostic Monitoring	Supported
Notes	Designed for use with SFP-GIG-BX-U40

SFP-GIG-BX-U40

Bi-Directional SFP Optical Transceiver.

LC	
802.3ah, SFP MSA	
1000Base-BX40	
SMF	
Transmit: 1310 mm Receive: 1490 nm	
-2 to +3 dBm	
-23 dBm	
~40 km	
-5°C to 70°C	
Supported	
Designed for use with SFP-GIG-BX-D20	

SFP-GIG-CWD

Coarse Wavelength Division Multiplexing (CWDM) is an optical transceiver supporting single-mode fiber over various wavelengths. CWDMs are hot-pluggable and are available for long-reach applications.

Connector Type	LC
Standards Supported	802.3z, SFP MSA

SFP-GIG-CWD

Coarse Wavelength Division Multiplexing (CWDM) is an optical transceiver supporting single-mode fiber over various wavelengths. CWDMs are hot-pluggable and are available for long-reach applications.

Connections Supported	1000Base-LX
Fiber Type	SMF
Wavelength	1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610
Optical Power Output	-2 to +3 dBm
Receiver Sensitivity	-24 dBm
Transmission Distances	~62 km
Operating Temperature	-5 °C to 70 °C
Digital Diagnostic Monitoring	Not Supported

100 Mbit Ethernet Transceivers

SFP-100-BX20LT Bi-Directional SFP Optical Transceiver.	
Connector Type	SC
Standards Supported	802.3ah, SFP MSA, ITU-T G.983
Connections Supported	100Base-BX
Fiber Type	SMF
Wavelength	Transmit: 1550 mm Receive: 1310 nm
Average Power Output	-14 to -8 dBm
Receiver Sensitivity	-32 dBm
Transmission Distance	~20 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Supported
Notes	Designed for use with SFP-100-BX20NU

Bi-Directional SFP Optical Transceiver.

Connector Type	SC
Standards Supported	802.3ah, SFP MSA, ITU-T G.983
Connections Supported	100Base-BX
Fiber Type	SMF
Wavelength	Transmit: 1310 nm Receive: 1550 nm
Average Power Output	-14 to -8 dBm
Receiver Sensitivity	-32 dBm
Transmission Distance	~20 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Supported
Notes	Designed for use with SFP-100-BX20LT

SFP-100-BXLC-D

Bi-Directional SFP Optical Transceiver.

Connector Type	LC
Standards Supported	802.3ah, SFP MSA, ITU-T G.983
Connections Supported	100Base-BX
Fiber Type	SMF
Wavelength	Transmit: 1550 mm Receive: 1310 nm
Average Power Output	-14 to -8 dBm
Receiver Sensitivity	-32 dBm
Transmission Distance	~20 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Supported
Notes	Designed for use with SFP-100-BXLC-U

SFP-100-BXLC-U

Bi-Directional SFP Optical Transceiver.

Connector Type	LC
Standards Supported	802.3ah, SFP MSA, ITU-T G.983
Connections Supported	100Base-BX
Fiber Type	SMF
Wavelength	Transmit: 1310 nm Receive: 1550 nm
Average Power Output	-14 to -8 dBm
Receiver Sensitivity	-32 dBm
Transmission Distance	~20 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Supported
Notes	Designed for use with SFP-100-BXLC-D

SFP-100-LC-MM
SFP Optical Transceiver

SIT Optical Hanseelver.	
Connector Type	LC
Standards Supported	802.3u, SFP MSA
Connections supported	100Base-FX

SFP-100-LC-MM

SFP Optical Transceiver.

Fiber Type	MMF
Wavelength	1310 nm
Optical Power Output	-19 to -14 dBm on 62.5/125μm -22 to -14 dBm on 50/125μm
Transmission Distance	~2 km on 62.5/125μm ~2 km on 50/125μm
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Not Supported

SFP-100-LC-SM15

Connector Type	LC
Standards Supported	802.3u, SFP MSA
Connections Supported	100Base-FX
Fiber Type	SMF
Wavelength (nm)	1310 nm
Optical Power Output	-15 to -8 dBm
Receiver Sensitivity	-34 dBm
Transmission Distance	~15 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Not Supported

SFP-100-LC-SM40

SFP	Optical	Transceiver.	
DII	Optical		

Connector Type	LC
Standards Supported	802.3u, SFP MSA
Connections Supported	100Base-FX
Fiber Type	SMF
Wavelength	1310 nm
Optical Power Output	-15 to -8 dBm
Receiver Sensitivity	-34 dBm
Transmission Distances	~40 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Not Supported

Dual-Speed Ethernet Transceivers

SFP-DUAL-BX-D Dual-Speed Bi-Directional SFP Optical Transceiver.	
Connector Type	LC
Standards Supported	802.3z, SFP MSA
Connections Supported	1000BASE-BX10-D
Fiber Type	SMF
Wavelength	Transmit: 1550 nm Receive: 1310 nm
Average Power Output	-9 to -3 dBm
Receiver Sensitivity	-18.7 dBm
Transmission Distance	~ 10 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Not Supported

SFP-DUAL-BX-U

Dual-Speed Bi-Directional SFP Optical Transceiver.

Connector Type	LC
Standards Supported	802.3z, SFP MSA
Connections Supported	1000BASE-BX10-U
Fiber Type	SMF
Wavelength	Transmit: 1310 nm Receive: 1550 nm
Average Power Output	-9 to -3 dBm
Receiver Sensitivity	-18.7 dBm
Transmission Distances	~ 10 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Not Supported

SFP-DUAL-SM10

Dual-Speed SFP Optical Transceiver.

Connector Type	LC
Standards Supported	802.3z, 802.3ah, SFP MSA
Connections Supported	100Base-LX, 1000Base-LX
Fiber Type	SMF

SFP-DUAL-SM10

Dual-Speed SFP Optical Transceiver.

Wavelength	1310 nm
Average Power Output	100Base-LX: -15 to -8 dBm 1000Base-LX: -9.5 to -3 dBm
Receiver Sensitivity	100Base-LX: -28 1000Base-LX: -22
Transmission Distances	10 km
Operating Temperature	0°C to 70°C
Digital Diagnostic Monitoring	Not Supported
Notes:	Transceiver may take between 10 and 20 seconds to initialize when first inserted.

10-Gigabit SFP+ Transceivers

SFP-10G-SR 10-Gigabit SFP+ Optical Transceiver.	
Connector Type	LC
Standards Supported	802.3 Clause 52
Connections supported	10GBase-SR
Fiber Type	MMF
Wavelength	850 nm
Optical Power Output	-7.3 to -1.3 dBm
Receiver Sensitivity	-11.1 dBm
Transmission Distance	~ 300 m
Operating Temperature	0 °C to 70°C
Digital Diagnostic Monitoring	Supported

SFP-10G-LR

10-Gigabit SFP+ Optical Transceiver.

LC
802.3 Clause 52
10GBase-LR
SMF
1310 nm
-8.2 to 0.5 dBm
-12.6 dBm
~ 10 km
0 °C to 70°C
Supported

SFP-10G-ER

10-Gigabit SFP+ Optical Transceiver.

Connector Type	LC
Standards Supported	802.3ae
Connections supported	10GBase-E
Fiber Type	SMF

SFP-10G-ER

10-Gigabit SFP+ Optical Transceiver.

Wavelength	1550 nm
Optical Power Output	-4.7 to 4.0 dBm
Receiver Sensitivity	-14.1 dBm
Transmission Distance	~ 40 km
Operating Temperature	0 °C to 70 °C
Digital Diagnostic Monitoring	Supported

SFP-10G-LRM

10-Gigabit SFP+ Optical Transceiver.

6 1	
Connector Type	LC
Standards Supported	802.3aq
Connections supported	10GBase-LRM
Fiber Type	MMF
Wavelength	1310 nm
Optical Power Output	-6.5 to .5 dBm
Receiver Sensitivity	-6.5 dBm
Transmission Distance	~ 220 m
Operating Temperature	0 °C to 70°C
Digital Diagnostic Monitoring	Supported

SFP-10G-GIG-SR

10-Gigabit SFP+ Optical Transceiver.

Connector Type	LC
Standards Supported	802.3-2005
Connections supported	10GBase-SR/SW, 1000Base-SX
Fiber Type	MMF
Wavelength	850 nm
Optical Power Output	-5 to -1 @ 10G -9.5 to -1dBm @ 1G
Receiver Sensitivity	-11.1 dBm @ 10G -17 dBm @ 1G
Transmission Distance	OM1: ~33m @ 10G, ~275m @ 1G OM2: ~82m @ 10G, ~550m @ 1G OM3: ~300m @ 10G, ~550m @ 1G
Operating Temperature	0 °C to 70°C

SFP-10G-GIG-SR 10-Gigabit SFP+ Optical Transceiv	/er.
Maximum Power Consumption	<1.0 Watt
Digital Diagnostic Monitoring	Supported

SFP-10G-T

10-Gigabit SFP+ Copper Transceiver.

RJ-45
802.3az
10GBaseT
CAT6a/7
~30 m
Not Supported

SFP-10G-C

10-Gigabit SFP+ Copper Transceiver.

Connector Type	Direct Attached
Standards Supported	802.3ae
Cable Length	60cm, 1m, 3m, 7m
Wire Gauge	24AWG
Bend Radius	1.25 in.
Digital Diagnostic Monitoring	Not Supported

OS6450S-CBL-60, OS6450S-C60-S

10-Gigabit SFP+ Copper Transceiver.

Connector Type	Direct Attached
Standards Supported	802.3ae
Cable Length	60cm
Wire Gauge	24AWG
Bend Radius	1.25 in.
Digital Diagnostic Monitoring	Not Supported

OS6450S-CBL-1M, OS6450S-C1M-S10-Gigabit SFP+ Copper Transceiver.Connector TypeDirect AttachedStandards Supported802.3aeCable Length1mWire Gauge24AWGBend Radius1.25 in.Digital Diagnostic MonitoringNot Supported

OS6450-CBL-3M

10-Gigabit SFP+ Copper Transceiver.

Connector Type	Direct Attached
Standards Supported	802.3ae
Cable Length	3m
Wire Gauge	24AWG
Bend Radius	1.25 in.
Digital Diagnostic Monitoring	Not Supported

OS6450-CBL-7M

10-Gigabit SFP+ Copper Transceiver.

Connector Type	Direct Attached
Standards Supported	802.3ae
Cable Length	7m
Wire Gauge	24AWG
Bend Radius	1.25 in.
Digital Diagnostic Monitoring	Not Supported

OS6350-CBL-60CM

10-Gigabit SFP+ Copper Transceiver.

Connector Type	Direct Attached
Standards Supported	802.3ae
Cable Length	60cm
Wire Gauge	24AWG

OS6350-CBL-60CM

10-Gigabit SFP+ Copper Transceiver.

Bend Radius	1.25 in.
Digital Diagnostic Monitoring	Not Supported

OS6350-CBL-1M

10-Gigabit SFP+ Copper Transceiver.

Connector Type	Direct Attached
Standards Supported	802.3ae
Cable Length	1m
Wire Gauge	24AWG
Bend Radius	1.25 in.
Digital Diagnostic Monitoring	Not Supported

OS6350-CBL-3M

10-Gigabit SFP+ Copper Transceiver.

Connector Type	Direct Attached
Standards Supported	802.3ae
Cable Length	3m
Wire Gauge	24AWG
Bend Radius	1.25 in.
Digital Diagnostic Monitoring	Not Supported

OS6350-CBL-7M

10-Gigabit SFP+ Copper Transceiver.

Connector Type	Direct Attached
Standards Supported	802.3ae
Cable Length	7m
Wire Gauge	24AWG
Bend Radius	1.25 in.
Digital Diagnostic Monitoring	Not Supported

2 Transceiver Compatibility Matrix

OmniSwitch 6250

The following table shows the supported transceiver configurations and the minimum release required for support on the OmniSwitch 6250:

SFP-GIG-SX 6.6.1 SFP-GIG-LX 6.6.1 SFP-GIG-LH40 6.6.1 SFP-GIG-LH70 6.6.1 SFP-GIG-LH70 6.6.1 SFP-GIG-EXTND 6.6.1 SFP-GIG-EXTND 6.6.1 SFP-GIG-BX-D 6.6.1 SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-U20 6.7.1 SFP-GIG-BX-U40 6.7.1 SFP-GIG-BX-U40 6.7.1 SFP-GIG-CWD Not Supported SFP-GIG-CWD Not Supported SFP-100-BX20LT ¹ 6.6.1 SFP-100-BX20LU ¹ 6.6.1 SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1	SFP	OS6250	
SFP-GIG-LH40 6.6.1 SFP-GIG-LH70 6.6.1 SFP-GIG-EXTND 6.6.1 SFP-GIG-T 6.6.1 SFP-GIG-BX-D 6.6.1 SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-U20 6.7.1 SFP-GIG-BX-U40 6.6.1 SFP-I00-BX20LT ¹ 6.6.1 SFP-100-BX20LU ¹ 6.6.1 SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-LC-MM ¹ 6.6.1	SFP-GIG-SX	6.6.1	
SFP-GIG-LH70 6.6.1 SFP-GIG-EXTND 6.6.1 SFP-GIG-T 6.6.1 SFP-GIG-BX-D 6.6.1 SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-U20 6.7.1 SFP-GIG-BX-U40 6.6.1 SFP-GIG-BX-U40 6.6.1 SFP-I00-BX20LT ¹ 6.6.1 SFP-100-BX20LT ¹ 6.6.1 SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1	SFP-GIG-LX	6.6.1	
SFP-GIG-EXTND 6.6.1 SFP-GIG-T 6.6.1 SFP-GIG-BX-D 6.6.1 SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-U0 6.7.1 SFP-GIG-BX-U20 6.7.1 SFP-GIG-BX-U40 6.7.1 SFP-GIG-BX-U40 6.7.1 SFP-GIG-BX-U40 6.7.1 SFP-GIG-CWD Not Supported SFP-100-BX20LT ¹ 6.6.1 SFP-100-BX20NU ¹ 6.6.1 SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1	SFP-GIG-LH40	6.6.1	
SFP-GIG-T 6.6.1 SFP-GIG-BX-D 6.6.1 SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-D20 6.7.1 SFP-GIG-BX-U20 6.7.1 SFP-GIG-BX-U40 6.7.1 SFP-I00-BX20LT ¹ 6.6.1 SFP-100-BX20LU ¹ 6.6.1 SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-LC-MM ¹ 6.6.1	SFP-GIG-LH70	6.6.1	
SFP-GIG-BX-D 6.6.1 SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-D20 6.7.1 SFP-GIG-BX-U20 6.7.1 SFP-GIG-BX-U40 6.7.1 SFP-GIG-DX-U40 6.7.1 SFP-I00-BX20LT 1 6.6.1 SFP-100-BX20NU1 6.6.1 SFP-100-BXLC-D 1 6.6.1 SFP-100-BXLC-U1 6.6.1 SFP-100-LC-MM1 6.6.1	SFP-GIG-EXTND	6.6.1	
SFP-GIG-BX-U 6.6.1 SFP-GIG-BX-D20 6.7.1 SFP-GIG-BX-U20 6.7.1 SFP-GIG-BX-D40 6.7.1 SFP-GIG-BX-U40 6.7.1 SFP-GIG-BX-U40 6.7.1 SFP-GIG-CWD Not Supported SFP-100-BX20LT ¹ 6.6.1 SFP-100-BX20NU ¹ 6.6.1 SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1	SFP-GIG-T	6.6.1	
SFP-GIG-BX-D20 6.7.1 SFP-GIG-BX-U20 6.7.1 SFP-GIG-BX-D40 6.7.1 SFP-GIG-BX-U40 6.7.1 SFP-GIG-CWD 0.7.1 SFP-GIG-CWD Not Supported SFP-100-BX20LT ¹ 6.6.1 SFP-100-BX20NU ¹ 6.6.1 SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-LC-MM ¹ 6.6.1	SFP-GIG-BX-D	6.6.1	
SFP-GIG-BX-U20 6.7.1 SFP-GIG-BX-D40 6.7.1 SFP-GIG-BX-U40 6.7.1 SFP-GIG-CWD Not Supported SFP-100-BX20LT ¹ 6.6.1 SFP-100-BX20NU ¹ 6.6.1 SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1	SFP-GIG-BX-U	6.6.1	
SFP-GIG-BX-D40 6.7.1 SFP-GIG-BX-U40 6.7.1 SFP-GIG-CWD Not Supported SFP-100-BX20LT ¹ 6.6.1 SFP-100-BX20NU ¹ 6.6.1 SFP-100-BX20NU ¹ 6.6.1 SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1	SFP-GIG-BX-D20	6.7.1	
SFP-GIG-BX-U40 6.7.1 SFP-GIG-CWD Not Supported SFP-100-BX20LT ¹ 6.6.1 SFP-100-BX20NU ¹ 6.6.1 SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1	SFP-GIG-BX-U20	6.7.1	
SFP-GIG-CWD Not Supported SFP-100-BX20LT ¹ 6.6.1 SFP-100-BX20NU ¹ 6.6.1 SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1	SFP-GIG-BX-D40	6.7.1	
SFP-100-BX20LT 1 6.6.1 SFP-100-BX20NU1 6.6.1 SFP-100-BXLC-D 1 6.6.1 SFP-100-BXLC-U1 6.6.1 SFP-100-LC-MM1 6.6.1	SFP-GIG-BX-U40	6.7.1	
SFP-100-BX20NU ¹ 6.6.1 SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-LC-MM ¹ 6.6.1	SFP-GIG-CWD	Not Supported	
SFP-100-BXLC-D ¹ 6.6.1 SFP-100-BXLC-U ¹ 6.6.1 SFP-100-LC-MM ¹ 6.6.1	SFP-100-BX20LT ¹	6.6.1	
SFP-100-BXLC-U ¹ 6.6.1 SFP-100-LC-MM ¹ 6.6.1	SFP-100-BX20NU ¹	6.6.1	
SFP-100-LC-MM ¹ 6.6.1	SFP-100-BXLC-D ¹	6.6.1	
	SFP-100-BXLC-U ¹	6.6.1	
	SFP-100-LC-MM ¹	6.6.1	
SFP-100-LC-SM15 ¹ 6.6.1	SFP-100-LC-SM15 ¹	6.6.1	
SFP-100-LC-SM40 ¹ 6.6.1	SFP-100-LC-SM40 ¹	6.6.1	
SFP-DUAL-BX-D Not Supported	SFP-DUAL-BX-D	Not Supported	
SFP-DUAL-BX-U Not Supported	SFP-DUAL-BX-U	Not Supported	
SFP-DUAL-SM10 Not Supported	SFP-DUAL-SM10	Not Supported	
SFP-10G-SR Not supported	SFP-10G-SR	Not supported	

SFP	OS6250
SFP-10G-LR	Not supported
SFP-10G-ER	Not supported
SFP-10G-LRM	Not supported
SFP-10G-C	Not supported
SFP-10G-T	Not supported
SFP-10G-GIG-SR	Not supported

 $^{1.}$ Only supported on combo ports @ 100Mbps speed.

OmniSwitch 6350

The following table shows the supported transceivers and the minimum release required for support on the OmniSwitch 6350:

SFP-GIG-SX $6.7.1$ SFP-GIG-LX $6.7.1$ SFP-GIG-LH40 $6.7.1$ SFP-GIG-LH70 $6.7.1$ SFP-GIG-LH70 $6.7.1$ SFP-GIG-EXTND $6.7.1$ SFP-GIG-BX-DNot supportedSFP-GIG-BX-UNot supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-100-BX20LTNot supportedSFP-100-BX20NUNot supportedSFP-100-BX20NUNot supportedSFP-100-BX20NUNot supportedSFP-100-BX1C-UNot supportedSFP-100-BX1C-UNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SRNot supportedSFP-10G-SRNot supportedSFP-10G-SRNot supportedSFP-10G-LRNot supportedSFP-10G-C1 $6.7.1$ OS6350-CBL-60CM $6.7.1.R04$ OS6350-CBL-60CM $6.7.1.R04$	SFP	OS6350
SFP-GIG-LH406.7.1SFP-GIG-LH706.7.1SFP-GIG-EXTND6.7.1SFP-GIG-T16.7.1SFP-GIG-BX-DNot supportedSFP-GIG-BX-UNot supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-I00-BX20LTNot supportedSFP-100-BX20NUNot supportedSFP-100-BXLC-DNot supportedSFP-100-BXLC-UNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-DUAL-BX-UNot supportedSFP-DUAL-BX-UNot supportedSFP-DUAL-BX-UNot supportedSFP-10G-CRNot supportedSFP-10G-CRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-CI6.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-10M6.7.1.R04	SFP-GIG-SX	6.7.1
SFP-GIG-LH706.7.1SFP-GIG-EXTND6.7.1SFP-GIG-T16.7.1SFP-GIG-BX-DNot supportedSFP-GIG-BX-UNot supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-CWDNot supportedSFP-100-BX20LTNot supportedSFP-100-BX20NUNot supportedSFP-100-BXLC-DNot supportedSFP-100-BXLC-UNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-DUAL-BX-UNot supportedSFP-DUAL-BX-UNot supportedSFP-10G-CLNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-CL6.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-60CM6.7.1.R04	SFP-GIG-LX	6.7.1
SFP-GIG-EXTND6.7.1SFP-GIG-T16.7.1SFP-GIG-BX-DNot supportedSFP-GIG-BX-UNot supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-CWDNot supportedSFP-100-BX20LTNot supportedSFP-100-BX20LTNot supportedSFP-100-BXLC-DNot supportedSFP-100-BXLC-UNot supportedSFP-100-BXLC-UNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SM40Not supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-C16.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-60CM6.7.1.R04	SFP-GIG-LH40	6.7.1
SFP-GIG-T16.7.1SFP-GIG-BX-DNot supportedSFP-GIG-BX-UNot supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-CWDNot supportedSFP-100-BX20LTNot supportedSFP-100-BX20LTNot supportedSFP-100-BX1C-DNot supportedSFP-100-BX1C-UNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SRNot supportedSFP-10C-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRM6.7.1.804OS6350-CBL-60CM6.7.1.804	SFP-GIG-LH70	6.7.1
SFP-GIG-BX-DNot supportedSFP-GIG-BX-UNot supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-CWDNot supportedSFP-GIG-CWDNot supportedSFP-100-BX20LTNot supportedSFP-100-BX20NUNot supportedSFP-100-BXLC-DNot supportedSFP-100-BXLC-UNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-104-L-BX-UNot supportedSFP-104-L-BX-UNot supportedSFP-104-L-BX-UNot supportedSFP-104-L-BX-UNot supportedSFP-104-L-BX-UNot supportedSFP-104-L-BX-UNot supportedSFP-104-L-BX-UNot supportedSFP-104-L-BX-UNot supportedSFP-104-L-BX-UNot supportedSFP-106-LRNot supportedSFP-106-LRNot supportedSFP-106-LRNot supportedSFP-106-LRMNot supportedSFP-106-LRMNot supportedSFP-106-L-C16.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-60CM6.7.1.R04	SFP-GIG-EXTND	6.7.1
SFP-GIG-BX-UNot supportedSFP-GIG-BX-D20Not supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-CWDNot supportedSFP-GIG-BX-U40Not supportedSFP-GIG-CWDNot supportedSFP-100-BX20LTNot supportedSFP-100-BX20NUNot supportedSFP-100-BX20NUNot supportedSFP-100-BXLC-DNot supportedSFP-100-BXLC-UNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SM40Not supportedSFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRMNot supportedSFP-10G-C16.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-1M6.7.1.R04	SFP-GIG-T ¹	6.7.1
SFP-GIG-BX-D20Not supportedSFP-GIG-BX-U20Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-CWDNot supportedSFP-100-BX20LTNot supportedSFP-100-BX20NUNot supportedSFP-100-BX20NUNot supportedSFP-100-BX20NUNot supportedSFP-100-BXLC-DNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM10Not supportedSFP-DUAL-BX-UNot supportedSFP-100-LC-SRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-L16.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-1M6.7.1.R04	SFP-GIG-BX-D	Not supported
SFP-GIG-BX-U20Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-CWDNot supportedSFP-100-BX20LTNot supportedSFP-100-BX20NUNot supportedSFP-100-BXLC-DNot supportedSFP-100-BXLC-UNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-C16.7.1OS6350-CBL-60CM6.7.1.R04	SFP-GIG-BX-U	Not supported
SFP-GIG-BX-D40Not supportedSFP-GIG-BX-U40Not supportedSFP-GIG-CWDNot supportedSFP-I00-BX20LTNot supportedSFP-100-BX20NUNot supportedSFP-100-BXLC-DNot supportedSFP-100-BXLC-UNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-100-LC-SRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-C16.7.1OS6350-CBL-60CM6.7.1.R04	SFP-GIG-BX-D20	Not supported
SFP-GIG-BX-U40Not supportedSFP-GIG-CWDNot supportedSFP-100-BX20LTNot supportedSFP-100-BX20NUNot supportedSFP-100-BXLC-DNot supportedSFP-100-BXLC-UNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-10G-CNot supportedSFP-10G-SRNot supportedSFP-10G-LRNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LIC-LIC-LIC-LIC-LIC-LIC-LIC-LIC-LIC-LIC	SFP-GIG-BX-U20	Not supported
SFP-GIG-CWDNot supportedSFP-100-BX20LTNot supportedSFP-100-BX20NUNot supportedSFP-100-BXLC-DNot supportedSFP-100-BXLC-UNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-10G-SRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRMNot supportedSFP-10G-LRM6.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-10M6.7.1.R04	SFP-GIG-BX-D40	Not supported
SFP-100-BX20LTNot supportedSFP-100-BX20NUNot supportedSFP-100-BXLC-DNot supportedSFP-100-BXLC-UNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SM40Not supportedSFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-DUAL-SM10Not supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRMNot supportedSFP-10G-L16.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-11M6.7.1.R04	SFP-GIG-BX-U40	Not supported
SFP-100-BX20NUNot supportedSFP-100-BXLC-DNot supportedSFP-100-BXLC-UNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SM40Not supportedSFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-DUAL-SM10Not supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRMNot supportedSFP-10G-LRM6.7.1.R04OS6350-CBL-60CM6.7.1.R04	SFP-GIG-CWD	Not supported
SFP-100-BXLC-DNot supportedSFP-100-BXLC-UNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-100-LC-SM40Not supportedSFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-DUAL-SM10Not supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRMNot supportedSFP-10G-LRM6.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-10M6.7.1.R04	SFP-100-BX20LT	Not supported
SFP-100-BXLC-UNot supportedSFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-DUAL-SM10Not supportedSFP-10G-SRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LAMNot supportedSFP-10G-C16.7.1.R04OS6350-CBL-1M6.7.1.R04	SFP-100-BX20NU	Not supported
SFP-100-LC-MMNot supportedSFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-DUAL-SM10Not supportedSFP-10G-SRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRMNot supportedSFP-10G-LARMNot supportedSFP-10G-C16.7.1.R04OS6350-CBL-60CM6.7.1.R04OS6350-CBL-1M6.7.1.R04	SFP-100-BXLC-D	Not supported
SFP-100-LC-SM15Not supportedSFP-100-LC-SM40Not supportedSFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-DUAL-SM10Not supportedSFP-10G-SRNot supportedSFP-10G-LRNot supportedSFP-10G-ERNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-TNot supportedSFP-10G-C16.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-1M6.7.1.R04	SFP-100-BXLC-U	Not supported
SFP-100-LC-SM40Not supportedSFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-DUAL-SM10Not supportedSFP-10G-SRNot supportedSFP-10G-LRNot supportedSFP-10G-LRNot supportedSFP-10G-LRMNot supportedSFP-10G-C16.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-1M6.7.1.R04	SFP-100-LC-MM	Not supported
SFP-DUAL-BX-DNot supportedSFP-DUAL-BX-UNot supportedSFP-DUAL-SM10Not supportedSFP-10G-SRNot supportedSFP-10G-LRNot supportedSFP-10G-ERNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-LRMNot supportedSFP-10G-C16.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-1M6.7.1.R04	SFP-100-LC-SM15	Not supported
SFP-DUAL-BX-UNot supportedSFP-DUAL-SM10Not supportedSFP-10G-SRNot supportedSFP-10G-LRNot supportedSFP-10G-ERNot supportedSFP-10G-LRMNot supportedSFP-10G-TNot supportedSFP-10G-C16.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-1M6.7.1.R04	SFP-100-LC-SM40	Not supported
SFP-DUAL-SM10Not supportedSFP-10G-SRNot supportedSFP-10G-LRNot supportedSFP-10G-ERNot supportedSFP-10G-LRMNot supportedSFP-10G-TNot supportedSFP-10G-C ¹ 6.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-1M6.7.1.R04	SFP-DUAL-BX-D	Not supported
SFP-10G-SRNot supportedSFP-10G-LRNot supportedSFP-10G-ERNot supportedSFP-10G-LRMNot supportedSFP-10G-TNot supportedSFP-10G-C16.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-1M6.7.1.R04	SFP-DUAL-BX-U	Not supported
SFP-10G-LRNot supportedSFP-10G-ERNot supportedSFP-10G-LRMNot supportedSFP-10G-TNot supportedSFP-10G-C16.7.1OS6350-CBL-60CM6.7.1.R04OS6350-CBL-1M6.7.1.R04	SFP-DUAL-SM10	Not supported
SFP-10G-ER Not supported SFP-10G-LRM Not supported SFP-10G-T Not supported SFP-10G-C ¹ 6.7.1 OS6350-CBL-60CM 6.7.1.R04 OS6350-CBL-1M 6.7.1.R04	SFP-10G-SR	Not supported
SFP-10G-LRM Not supported SFP-10G-T Not supported SFP-10G-C ¹ 6.7.1 OS6350-CBL-60CM 6.7.1.R04 OS6350-CBL-1M 6.7.1.R04	SFP-10G-LR	Not supported
SFP-10G-T Not supported SFP-10G-C ¹ 6.7.1 OS6350-CBL-60CM 6.7.1.R04 OS6350-CBL-1M 6.7.1.R04	SFP-10G-ER	Not supported
SFP-10G-C ¹ 6.7.1 OS6350-CBL-60CM 6.7.1.R04 OS6350-CBL-1M 6.7.1.R04	SFP-10G-LRM	Not supported
OS6350-CBL-60CM 6.7.1.R04 OS6350-CBL-1M 6.7.1.R04	SFP-10G-T	Not supported
OS6350-CBL-1M 6.7.1.R04	SFP-10G-C ¹	6.7.1
	OS6350-CBL-60CM	6.7.1.R04
OS6350-CBL-3M 6.7.1.R04	OS6350-CBL-1M	6.7.1.R04
	OS6350-CBL-3M	6.7.1.R04

SFP	OS6350
OS6350-CBL-7M	6.7.1.R04
SFP-10G-GIG-SR	Not supported

¹ Supports 1G only.

OmniSwitch 6450

The following table shows the supported transceiver configurations and the minimum release required for support on the OmniSwitch 6450:

SFP	O86450	OS6450-M/X	OS6450-P10S/ U24S
SFP-GIG-SX	6.6.3	6.6.5	6.6.5
SFP-GIG-LX	6.6.3	6.6.5	6.6.5
SFP-GIG-LH40	6.6.3	6.6.5	6.6.5
SFP-GIG-LH70	6.6.3	6.6.5	6.6.5
SFP-GIG-EXTND	6.6.4	6.6.5	6.6.5
SFP-GIG-T ¹	6.6.3	6.6.5	6.6.5
SFP-GIG-BX-D	6.6.3	6.6.5	6.6.5
SFP-GIG-BX-U	6.6.3	6.6.5	6.6.5
SFP-GIG-BX-D20	6.6.4	6.6.5	6.6.5
SFP-GIG-BX-U20	6.6.4	6.6.5	6.6.5
SFP-GIG-BX-D40	6.6.4	6.6.5	6.6.5
SFP-GIG-BX-U40	6.6.4	6.6.5	6.6.5
SFP-GIG-CWD	6.6.3	6.6.5	6.6.5
SFP-100-BX20LT ²	6.6.3	6.6.5	6.6.5
SFP-100-BX20NU ²	6.6.3	6.6.5	6.6.5
SFP-100-BXLC-D ²	6.6.3	6.6.5	6.6.5
SFP-100-BXLC-U ²	6.6.3	6.6.5	6.6.5
SFP-100-LC-MM ²	6.6.3	6.6.5	6.6.5
SFP-100-LC-SM15 ²	6.6.3	6.6.5	6.6.5
SFP-100-LC-SM40 ²	6.6.3	6.6.5	6.6.5
SFP-DUAL-BX-D	6.6.3	6.6.5	6.6.5
SFP-DUAL-BX-U	6.6.3	6.6.5	6.6.5
SFP-DUAL-SM10	6.6.4	6.6.5	6.6.5
SFP-10G-SR	6.6.3	6.6.5	6.6.5
SFP-10G-LR	6.6.3	6.6.5	6.6.5
SFP-10G-ER	6.6.3	6.6.5	6.6.5
SFP-10G-LRM	6.6.3	6.6.5	6.6.5
SFP-10G-GIG-SR ³	6.6.4	6.6.5	6.6.5
SFP-10G-T	6.7.1.R04	6.7.1.R04	6.7.1.R04
SFP-10G-C	6.6.3	6.6.5	6.6.5
OS6450S-CBL-60, OS6450S-C60-S	6.6.3	6.6.5	6.6.5

SFP	OS6450	OS6450-M/X	OS6450-P10S/ U24S
OS6450S-CBL-1M, OS6450S-C1M-S	6.6.3	6.6.5	6.6.5
OS6450-CBL-3M	6.6.3	6.6.5	6.6.5
OS6450-CBL-7M	6.6.3	6.6.5	6.6.5

^{1.} 6450-U24(S) supports 10/100/1000 mbps on user ports only (1-22), SFP+ ports support 1G only. Not supported on combo ports.

 2 Supported on 6450-U24(S) user ports and combo ports. Not supported on 1G/10G uplink ports or expansion modules.

³ Supports 1G/10G speeds on 10G SFP+ ports only. Transceiver not supported on 1G SFP ports.