LE1D2S04SX1E-4-Port 10GBASE-X and 24-Port 100/1000BASE-X and 8-Port 10/100/1000BASE-T Combo Interface Card (X1E, RJ45/SFP/SFP+)

Version Mapping

Table 7-416 Switch chassis and software versions matching the card

Card Name	S9300X Chassis
LE1D2S04SX1E	S9310X chassis: supported in V200R010C00 and later versions S9300X-4, S9300X-8, and S9300X-12 chassis: not supported

Introduction

The LE1D2S04SX1E can be installed in:

- Slots 01 to 10 in an S9310X chassis.

Figure 7-192 Appearance of the LE1D2S04SX1E

Functions

The LE1D2S04SX1E provides the following functions:

- Communicates with the MPU and works under the control of the MPU.
- Searches for routes and destination addresses of data packets for forwarding.
- Forwards data packets.

Table 7-417 Functions of the LE1D2S04SX1E

Function	Description
Basic functions	Provides four 10G Ethernet optical ports, sixteen 100/1000M Ethernet optical ports, and eight 10/100/1000M combo ports for data access and switching.
Distributed forwarding	Performs concurrent data forwarding using a distributed data plane.

Function	Description
Software feature	LAN/WAN switchover
Hot swapping	The LE1D2S04SX1E is hot swappable.

Indicators and Ports

Figure 7-193 Indicators on the LE1D2S04SX1E panel

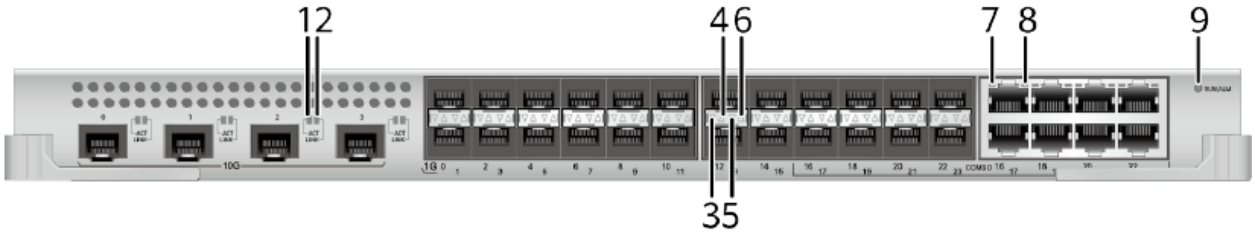

Table 7-418 Indicators on the LE1D2S04SX1E panel

Number	Indicator	Color	Description
1	ACT indicator of a 10GE optical port	Yellow	Blinking: The port is transmitting and receiving data.
2	LINK indicator of a 10GE optical port	Green	Steady on: A link has been established on the port.
3	ACT indicator of a lower GE optical port	Yellow	Blinking: The port is transmitting and receiving data.
4	ACT indicator of an upper GE optical port		
5	LINK indicator of a lower GE optical port	Green	Steady on: A link has been established on the port.

Number	Indicator	Color	Description
6	LINK indicator of an upper GE optical port		
7	LINK/ACT indicator of an upper electrical port	Green	Steady on: A link has been established on the port. Blinking: The port is transmitting and receiving data.
8	LINK/ACT indicator of a lower electrical port		
9	RUN/ALM: running status indicator	Green	Steady on: The card is powered on. If the indicator is steady green for no more than 30 seconds, the CPU is being started. If the indicator is steady green for more than 30 seconds, the software is not running. Slow blinking: The card software is running properly. Fast blinking: The card software is starting.
		Red	Steady on: The card has failed and the fault requires manual intervention.
		Yellow	Steady on: The card is powered off. (For example, the card has been forcibly powered off using

Number	Indicator	Color	Description
			the **power off** command or is about to start.)

Figure 7-194 Ports on the LE1D2S04SX1E panel

1	Four 10GBASE SFP+ ports
2	Sixteen 100/1000BASE-X ports
3	Eight combo ports. Each combo port consists of a 10/100/1000BASE-T port and a 100/1000BASE-X port.

10GBASE SFP+ port

Table 7-419 describes the attributes of a 10GBASE SFP+ port.

Table 7-419 Attributes of a 10GBASE SFP+ port

Attribute	Description
Connector type	SFP+
Optical port attributes	Depend on the SFP+ to SFP+ high-speed cable (1 m, 3 m, 5 m, 10 m), QSFP+ to 4*SFP+ high-speed cable (1 m, 3 m, 5 m), SFP+ optical module, or SFP+ optical cable used. For the optical modules supported by the LE1D2S04SX1E and their attributes, see 10GE SFP+ Optical Modules, 10GE-CWDM SFP+ Optical Modules and10GE-DWDM SFP+ Optical Modules.
Standards compliance	IEEE 802.3ae

Attribute	Description
Frame format	Ethernet_II, Ethernet_SAP, Ethernet_SNAP
Network protocol	IP

100/1000BASE-X port

Table 7-420 lists the attributes of a 100/1000BASE-X optical port with an optical module installed.

Table 7-420 Optical port attributes (optical module)

Attribute	Description
Connector type	SFP
Optical port attributes	Depend on the SFP optical module used. For optical modules supported by the LE1D2S04SX1E and their attributes, see FE SFP/eSFP Optical Modules, GE eSFP Optical Modules, GE-CWDM eSFP Optical Modules, and GE-DWDM eSFP Optical Modules.
Standards compliance	IEEE 802.3z
Frame format	Ethernet_II, Ethernet_SAP, Ethernet_SNAP
Network protocol	IP

Table 7-421 lists the attributes of a 100/1000BASE-X optical port with a copper module installed.

Table 7-421 Optical port attributes (copper module)

Attribute	Description
Connector type	SFP
Optical port attributes	Depend on the SFP copper module used.

Attribute	Description
	For details on the copper modules supported by the cards and attributes of the copper modules, see GE SFP Copper Modules (10 Mbit/s, 100 Mbit/s and 1000 Mbit/s rates).
Standards compliance	IEEE 802.3ab
Frame format	Ethernet_II, Ethernet_SAP, Ethernet_SNAP
Network protocol	IP

Combo Port

A combo port is a dual-purpose port consisting of an Ethernet optical port and an Ethernet electrical port. The electrical and optical ports of a combo port are multiplexed, and only one of them can work at a time.

NOTE

A combo port can work in any of the following modes: auto (selects working mode automatically), fiber (optical port), and copper (electrical port). You can run the **combo-port** command to configure the working mode of a combo port. By default, a combo port works in auto mode. In this mode, a combo port determines the working port in the following way:

- If the combo port only has an Ethernet cable connected, the electrical port of the combo port is the working port after the combo port goes Up.
- If the combo port has an optical module installed, the optical port of the combo port is the working port after the combo port goes Up, regardless of whether an Ethernet cable is connected to combo port.

Table 7-422 describes the attributes of a 10/100/1000BASE-T port.

Table 7-422 Attributes of a 10/100/1000BASE-T port

Attribute	Description
Connector type	RJ45
Standards compliance	IEEE 802.3ab

Attribute	Description
Frame format	Ethernet_II, Ethernet_SAP, Ethernet_SNAP
Network protocol	IP

Table 7-423 describes the attributes of a 100/1000BASE-X port.

Table 7-423 Attributes of a 100/1000BASE-X port

Attribute	Description
Connector type	SFP
Optical port attributes	Depend on the SFP optical module used. For optical modules supported by the LE1D2S04SX1E and their attributes, see FE SFP/eSFP Optical Modules, GE eSFP Optical Modules, GE-CWDM eSFP Optical Modules, and GE-DWDM eSFP Optical Modules.
Standards compliance	IEEE 802.3z
Frame format	Ethernet_II, Ethernet_SAP, Ethernet_SNAP
Network protocol	IP

Specifications

Table 7-424 Specifications of the LE1D2S04SX1E

Item	Description
Physical specifications	• Dimensions (H x W x D): 35.1 mm x 397.2 mm x 430.4 mm (1.38 in. x 15.64 in. x 16.95 in.) • Weight: 2.88 kg (6.35 lb) • Maximum power consumption: 130 W

Ordering Information

Card ordering information is subject to updates with product version upgrades. The ordering information provided in this manual is for reference only. To obtain the latest ordering information, contact Huawei switch distributors or Huawei local office.

Table 7-425 Ordering information

Part Number	Card Name	Card Model
03030RHA	4-port 10GBASE-X and 24-port 100/1000BASE-X and 8-port 10/100/1000BASE-T combo interface card (X1E, RJ45/SFP/SFP+)	LE1D2S04SX1E