Features and specifications

System configurations, cabling routing, DIMM population

Lenovo

SN5600 system specifications

Specifications	SN5600
Mounting	2U 19-inch rack mount
Connector cage	• Sixty-four 10/25/40/50/100/200/400/800 GbE ports • One SFP28 1/10/25 GbE port • One 100/1000 Mbps management port • One RJ45 serial console port • One USB port
CPU	Intel x86 Xeon, Hexa-core Coffee Lake E-2276ME w/ secured-boot
Memory	32 GB DDR4 RAM, 160 GB SSD
PSU	Two hot-swappable PSUs (1+1 redundancy)
Fan	Four hot-swappable fans (3+1 redundancy)
Power	Typical power with passive cables (ATIS): 940 W
Throughtput	51.2 Tb/S

Reference document: SN5000 switch systems hardware user manual

Data interfaces

The data interfaces can be used with QSFP-DD/OSFP modules or transceivers. Each QSFP-DD/OSFP port can be connected to SFP (Dynamix QSA) adapters with a QSFP-DD/OSFP hybrid or splitter cable.

Model family	Ports	Maximum speed
SN5600	64	800 GbE (100 Gbps/lane)
	128	400 GbE
	256	200 GbE
		100 GbE
		50 GbE
		25 GbE
		10 GbE

High power port transceivers

The SN5600 has several high-power ports for optical transceivers. The following table specifies the maximum power capabilities:

Ports	Maximum power support
1 to 64	18 W

OSFP connectors

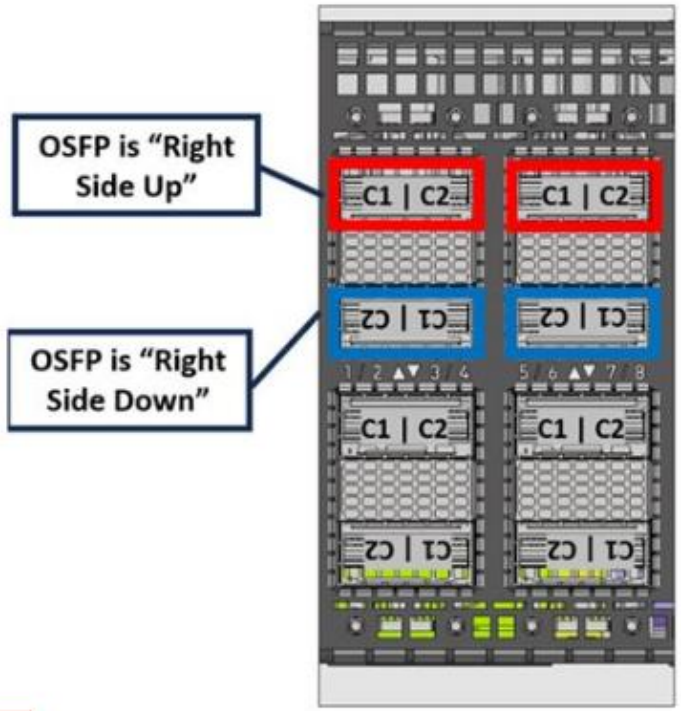
The SN5600 has 64 OSFP connectors, and each physical connector provides NDR ports. To help cool such a dense array of ports, the OSFP cages only accept finned OSFP connectors. The flat OSFP connector is single-port and is used for adapter connections.

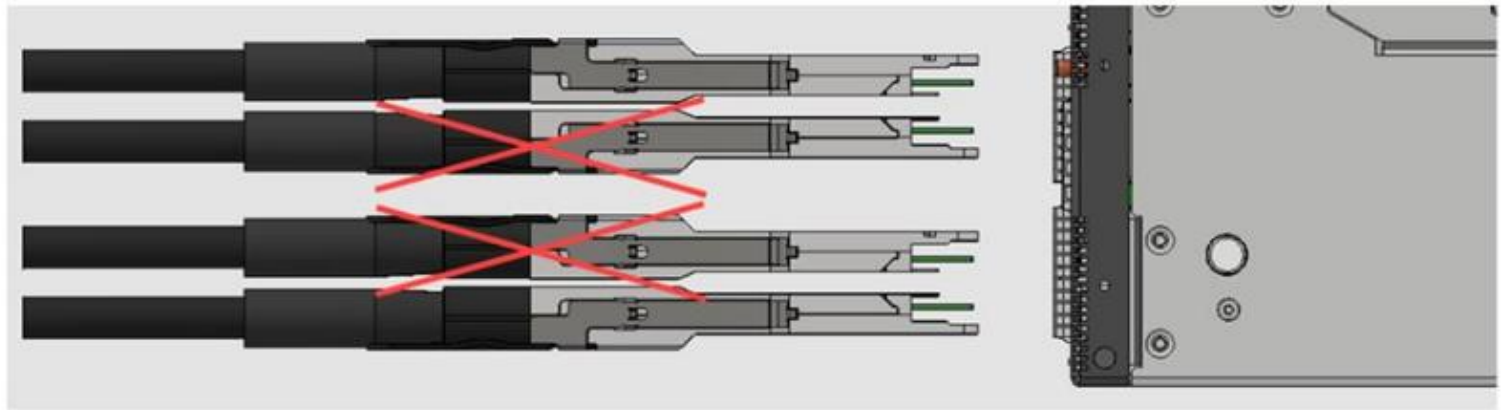
Finned connector for the switch side

Flat connector for the NIC (adapter) side

Cable installation

To install a cable, press the connector into the port receptacle until it is firmly seated. When a physical connection has been established, the LED indicator for that data port will light orange. When a logical connection has been made, the color of the LED will change to green.
To remove a cable, disengage the locks and slowly pull the connector away from the port receptacle. The LED indicator for that port will turn off when the cable has been unseated.
All cables can be inserted or removed with the unit powered on.





Splitter cables

For a list of supported cables and transceivers, refer to Lenovo Press.

Port splitting

When using splitter cables, the following SN5600 port splitting options are available:

- When running at 100 GbE per lane, each 800 GbE port can be split into four 200 GbE ports without any limitations, or four odd 100 GbE ports with even ports disabled (unmapped).
- When running at a 50 GbE per lane, each 400 GbE port can be split into two 200 GbE ports or four 100 GbE ports without any limitations.
- When running at 25 GbE, each 200 GbE port can be split into two 100 GbE ports or four 50 GbE ports without any limitations.

(Click HERE to see the splitting options)

Port splitting