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## Validated SFPs for CSG2500 Series Appliances

This article lists the small form-factor pluggable (SFP/SFP+) optics supported on the CSG2500 series appliance fiber interfaces, and it describes the remote switches that have been tested with the SFPs.

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## Supported VNI Ports for SFPs

The following table describes the VNI ports, the controller, and the SFP and SFP+ transceivers supported on the CSG2500 appliance.

Appliance	Ports	Controller	Supported SFP/SFP+
CSG2500	vni-0/8 through vni-0/15	Intel X710	1-Gigabit Ethernet/ 10-Gigabit Ethernet fiber ports

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## Supported 10-Gigabit Ethernet SFP+ Transceivers

The following table describes the 10-Gigabit Ethernet SFP+ transceiver modules supported on the CSG2500 appliance.

Type	Manufacturer	Part Number	vni-0/8 through vni-0/15	Transceiver Description
Short-reach (SR)	Finisar	FTLX8574D3BCL	Yes	10GBASE-SR/SW 300-m multimode datacom SFP+ optical transceiver
Long-reach (LR)	Finisar	FTLX1471D3BCL/ FTLX1475D3BCL	Yes	10GBASE-LR 1310-nm single- mode datacom SFP+ optical transceiver

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## Supported 1-Gigabit Ethernet SFP+ Transceivers

The following table describes the 1-Gigabit Ethernet SFP+ transceiver modules supported on the CSG2500 appliance.

Type	Manufacturer	Part Number	vni-0/8 through vni-0/15	Transceiver Description
Short wavelength (SX)	Finisar	FTLF8519P3BNL	Yes	1000BASE-SX, up to 500 m, multimode datacom SFP+ optical transceiver
Long wavelength (LX)	Finisar	FTLF1318P3BTL	Yes	1000BASE-LX, up to 10 km, multimode datacom SFP+ optical transceiver

Note: The Intel Skylake-D processor does not support single-speed 1-Gigabit Ethernet optics. To connect at 1-Gigabit Ethernet speeds, you must use a qualified dual-rate optics.

## Compatible Remote Switches

The following switches have been tested with a 1-Gigabit Ethernet link connection to CSG2500 appliance:

- Cisco Nexus-3048T
- Juniper EX-2200
- Dell (S3048, S4128F) switches.

## Connection Recommendations

The following are recommendations for connecting at 1-Gigabit Ethernet speeds:

- After you dynamically insert an SFP or change the SFP speed, you must disable and then re-enable the VNI interface on the CSG2500 appliance.
- If the configuration on the remote device changes, you must disable and then reenable the VNI interface on the CSG2500 appliance.
- Ensure that you have enabled the 1-Gigabit Ethernet interface in the Versa Operating System™ (VOS™) software.
- For 1-Gigabit Ethernet SFPs, you must turn off auto-negotiation on the remote device, and you must set the connection speed 1-GE. For example, for Cisco switches, in the interface configuration, configure the speed to 1000:

```
interface Ethernet 1/25
speed 1000
```

For Juniper switches, configure no-auto-negotiation on the interface:

```
enable;
ether-options {
```

```
no-auto-negotiation;  
link-mode full-duplex;  
speed {  
    1g;  
}  
}
```

Note: Before you order units in bulk, validate connections with the target remote device in a lab or testing environment to ensure that there are no compatibility or link issues.