Validated SFPs for CSG700 Series Appliances

This article lists the small form-factor pluggable (SFP/SFP+) optics supported on the CSG700 series appliance fiber interfaces, and it describes the remote switches that have been tested with the SFPs.

Supported 1-Gigabit Ethernet SFP Tranceivers

The following table describes the 1-Gigabit Ethernet SFP transceiver modules supported on the CSG700 series appliances.

Type	Manufacturer	Part Number	Transceiver Description
Short reach (SR)	Finisar	FTLF8519P3BNL	1000BASE-SX Ethernet SFP optical transceiver, 500-m extended temperature
Long reach (LR)	Finisar	FTLF1318P3BTL	1000BASE-LX Ethernet Gen 3 SFP optical transceiver, 10-km industrial operating temperature

Compatible Remote Switches

The following switches have been tested with a 1-Gigabit Ethernet link connection to CSG700 series appliances:

- Cisco Nexus 3048T
- Dell S3048 and S4128F
- Juniper EX2200

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 reenable the VNI interface on the CSG700 appliance.

- If the configuration on the remote device changes, you must disable and then re-enable the VNI interface on the CSG700 appliance.

- Ensure that you have enabled the 1-Gigabit Ethernet interface in the Versa Operating System^{TM} (VOS^{TM}) software.

- For 1-Gigabit Ethernet SFPs, you must turn off autonegotiation 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.

Compatibility Issues

- Link flap issues may occur if the remote device is an older Cisco Nexus 3064 switch (2012).
- After you reboot CSG700 appliances, the link error "DCX-NO Ack in 100 PDUs" may occur on Cisco Nexus switches. As a workaround, issue the **shutdown** command followed by a **no shutdown** on the Cisco switch interface that is used for link detection.
- BASE-T SFP modules for Denverton-based boards are not supported.