


Monitor the SFP Module

 *For Releases 20.2.1 and later.*

You can use CLI and vty commands to read the small form-factor pluggable (SFP) module EEPROM and digital optical monitoring (DOM) memory and report the module information and DOM as per the Multisource Agreement (MSA) SFF-8472 specification.

To report the SFP module information and monitor the DOM status of the optical transceiver:

```
admin@versa-vos-cli> show debug vsm sfp-optics-modules
```

```
vsm debug vty commands:
```

```
vsm-vcsn0> show vsm sfp-optics-modules
```

```
[vni-x/x] Interface Name
```

```
[enter] Show all SFP interfaces
```

```
(show all vni ports with SFP modules detected)
```

```
vsm-vcsn0> show vsm optics-diagnostics
```

```
[string] select from choices: [brief, dom, detail]
```

```
vsm-vcsn0> show vsm optics-diagnostics brief
```

```
[string] Interface name [vni-x/x]
```

For example:

```
admin@versa-vos-cli> show debug vsm sfp-optics-modules
```

```
Datapath interface      : vni-0/5
Vendor Name             : FINISAR
  Part Number           : FTRJ1319P1BTL
  SerialNumber          : P5H1HTR
Transceiver Identifier  : 0x03 Identifier_SFP_SFP_PLUS
                        : Ethernet 1000BASE-LX
10G/1G/Eth Compliance  : Transceiver:A0[3,6] 0x00 0x02
Connector               : 0x03 Connector_LC
Length                  : (SMF,km) (SMF,m) (50um,m) (62.5um,m) (Copper,m) (OM3,m)
                        : 10      10000  0      0      0      0
Laser Wavelength       : 1310nm
Optical Diagnostics Monitoring : Implemented
  RX signal power       : Power Measurement Average Power
  TX signal power       : Not valid when the transmitter is disabled
Calibration             : Externally Calibrated
```

Module Temperature : 44.82 degrees C / 112.68 degrees F
 Module Voltage : 3.3132 V
 Laser Bias Current : 14.772 mA
 Laser TX Output Power : 0.4068 mW / -3.91 dBm
 RX Measurement Average Power : 0.7736 mW / -1.11 dBm
 Optional Status/Control Bits : 0x00
 TX Disable State : 0x00
 TX Fault State : 0x00
 RX LOS State : 0x00

Datapath interface : vni-0/8
 Vendor Name : FINISAR
 Part Number : FTLX8571D3BCL
 SerialNumber : UG407UW
 Transceiver Identifier : 0x03 Identifier_SFP_SFP_PLUS
 : Ethernet 10G Base-SR
 10G/1G/Eth Compliance : Transceiver:A0[3,6] 0x10 0x00
 Connector : 0x03 Connector_LC
 Length : (SMF,km) (SMF,m) (50um,m) (62.5um,m) (Copper,m) (OM3,m)
 : 0 0 80 30 0 300
 Laser Wavelength : 850nm
 Optical Diagnostics Monitoring : Implemented
 RX signal power : Power Measurement Average Power
 TX signal power : Not valid when the transmitter is disabled
 Calibration : Internally Calibrated
 Module Temperature : 35.36 degrees C / 95.65 degrees F
 Module Voltage : 3.3833 V
 Laser Bias Current : 8.046 mA
 Laser TX Output Power : 0.5447 mW / -2.64 dBm
 RX Measurement Average Power : 0.4614 mW / -3.36 dBm
 Optional Status/Control Bits : 0x30
 TX Disable State : 0x00
 TX Fault State : 0x00
 RX LOS State : 0x00

Datapath interface : vni-0/9
 Vendor Name : FINISAR
 Part Number : FTLX8571D3BCL
 SerialNumber : AJ20GLU
 Transceiver Identifier : 0x03 Identifier_SFP_SFP_PLUS
 : Ethernet 10G Base-SR
 10G/1G/Eth Compliance : Transceiver:A0[3,6] 0x10 0x00
 Connector : 0x03 Connector_LC
 Length : (SMF,km) (SMF,m) (50um,m) (62.5um,m) (Copper,m) (OM3,m)
 : 0 0 80 30 0 300
 Laser Wavelength : 850nm
 Optical Diagnostics Monitoring : Implemented
 RX signal power : Power Measurement Average Power
 TX signal power : Not valid when the transmitter is disabled
 Calibration : Internally Calibrated
 Module Temperature : 36.34 degrees C / 97.41 degrees F
 Module Voltage : 3.3687 V
 Laser Bias Current : 6.946 mA
 Laser TX Output Power : 0.5398 mW / -2.68 dBm

RX Measurement Average Power : 0.3621 mW / -4.41 dBm
Optional Status/Control Bits : 0x30
TX Disable State : 0x00
TX Fault State : 0x00
RX LOS State : 0x00

Software Release Information

Releases 20.2.1 and later support all content described in this article