



Nevision SFPs

Optical video SFP range

3G/HD/SD-SDI compatible SFPs

Nevision range of optical video SFPs are designed for CWDM applications.

The range of single and dual transmitters and transceivers supports all 18 channels of CWDM as well as low cost 13T. The single and dual receivers and transceivers are available with both long haul and short haul receiver optics.

The devices are designed to handle pathological signals appearing in both 3G/HD/SD-SDI formats without penalty in optical performance.

These SFPs are pluggable devices that enable easy exchange and upgrade of optical ports to Nevision's Flashlink, Flashlink Compact and VikinX Sublime Optical product ranges.

Applications

- Ventura
- Flashlink
- eMerge

Key features

- Single and dual transmitters and receivers
- Transceivers
- Supporting all 18 CWDM channels
- 3G/HD/SD-SDI support
- -30dBm and -20dBm receivers
- Pathological compliance

Product description

Nevion's optical video SFPs are small form factor pluggable devices that consist of either two optical transmitters, two optical receivers or an optical transmitter and an optical receiver. The transmitter and receiver technology in use is different between the different SFP products. The optical key specifications for the different SFP's are assembled in Table 1.

The SFPs have been specially designed to handle pathological pattern that occurs in uncompressed video signals. These patterns occurs in both SD-SDI, HD-SDI and 3G-SDI, and Nevision has carefully chosen designs that withstands these patterns without any penalty in performance.

All SFP's have the ability to report information such as wavelength, signal presence, received signal level, launch power and internal temperature. This information is available in some of Nevision's SFP based products presented through their respective element management system.

Table 1: SFP models and performance summary

Order No	Product name	Optical system	Wavelength	Launch power min/max	Minimum sensitivity	Receiver overload
19145	SFP-3G-OE-2	Single mode Dual receiver	N/A	N/A	3G-SDI: -18dBm HD-SDI: -20dBm SD-SDI: -20dBm	-3dBm
22180	SFP-3G-OE-2-L	Single mode Dual receiver	N/A	N/A	3G-SDI: -28dBm HD-SDI: -30dBm SD-SDI: -30dBm	-9dBm
19144	SFP-3G-EO-2	Single mode Dual transmitter	1310nm	-9dBm/-3dBm	N/A	N/A
23033	SFP-3G-EO-2-C1xxx/C1xxx	Single mode Dual transmitter	1270 – 1610nm	0dBm/+3dBm	N/A	N/A
22968	SFP-3G-EO-OE-13T-S	Single mode Transceiver	1310nm	0dBm/+3dBm	-20dBm	-3dBm
23036	SFP-3G-EO-OE-C1xxx-L	Single mode Transceiver	1270 – 1610nm	0dBm/+3dBm	3G-SDI: -28dBm HD-SDI: -29dBm SD-SDI: -30dBm	-9dBm
14155	SFP-3G-EO-13T	Single mode Transmitter	1310nm	-5dBm/0dBm	N/A	N/A
24154	SFP-3G-C1xxx	Single mode Transmitter	1270 – 1610nm	0dBm/+3dBm	N/A	N/A
24156	SFP-3G-OE	Single mode Receiver	N/A	N/A	-20dBm	-3dBm
24157	SFP-3G-OE-L	Single mode Receiver	N/A	N/A	3G-SDI: -28dBm HD-SDI: -29dBm SD-SDI: -30dBm	-9dBm

Specifications

Optical single mode transmitter 1310nm

Connector	LC/UPC, single mode
Center wavelength	1310nm +/- 50nm
Extinction ratio	min 3.5dB

Optical single mode transmitter CWDM

Connector	LC/UPC, single mode
Center wavelength	1270nm - 1610nm +/- 7.5nm, in 20nm steps
Extinction ratio	min 6dB

Optical single mode receiver

Connector	LC/UPC, single mode
Optical wavelength	1260nm - 1620nm

Physical and environmental

Power consumption	<1.5W
Operating temperature	0°C to 70°C
Storage temperature	-40°C to 85°C
Relative humidity	5% to 85%

Supported standards

SMPTE 259M, SMPTE 292M, SMPTE 344M, SMPTE 424M

Ordering options

19144 SFP-3G-EO-2-13T	Dual channel optical transmitter SFP supporting data rates up to 3Gbps including SD, HD and 3G-SDI. These devices are designed to be compatible to pathological video signals.
23033 SFP-3G-EO-2-C1xxx/C1xxx	Dual channel optical CWDM transmitter SFP supporting 3G/HD/SD-SDI and ASI. They are available with all 18 CWDM wavelengths. These devices are designed to be compatible to pathological video signals.
22968 SFP-3G-EO-OE-13T-S	Optical 13T short haul transceiver SFP supporting data rates up to 3Gbps including SD, HD and 3G-SDI. These devices are designed to be compatible to pathological video signals.
23036 SFP-3G-EO-OE-C1xxx-L	Optical CWDM long haul transceiver SFP supporting 3G/HD/SD-SDI and ASI. They are available with all 18 CWDM wavelengths. These devices are designed to be compatible to pathological video signals.
19145 SFP-3G-OE-2	Dual channel optical receiver SFP supporting data rates up to 3Gbps including SD, HD and 3G-SDI. These devices are designed to be compatible to pathological video signals.
22180 SFP-3G-OE-2-L	Dual channel optical long haul receiver SFP supporting data rates up to 3Gbps including SD, HD and 3G-SDI. These devices are designed to be compatible to pathological video signals.
14155 SFP-3G-EO-13T	Single channel optical transmitter SFP supporting 3G/HD/SD-SDI and ASI. These devices are designed to be compatible to pathological video signals.
24154 SFP-3G-C1xxx	Single channel optical CWDM transmitter SFP supporting 3G/HD/SD-SDI and ASI. They are available with all 18 CWDM wavelengths. These devices are designed to be compatible to pathological video signals.
24156 SFP-3G-OE	Single channel optical receiver SFP supporting data rates up to 3Gbps including SD, HD and 3G-SDI. These devices are designed to be compatible to pathological video signals.
24157 SFP-3G-OE-L	Single channel optical long haul receiver SFP supporting data rates up to 3Gbps including SD, HD and 3G-SDI. These devices are designed to be compatible to pathological video signals.



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