

Application Note

iConverter[®] Network Interface Device

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iConverter[®] SFP-NID[™] Installation Requirements

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1.0 SCOPE

This application note describes the installation requirements for the SFP-NID.

2.0 SFP-NID REQUIREMENTS

The SFP-NID can generate elevated levels of heat and should be installed in equipment with proper airflow. However, when this is not the case, the SFP-NID should be installed in an environment that does not restrict airflow.

The following table provides a list of the SFP-NID models covered by this application note.

Model Number	Туре	Data Rate	Spec. Distance (km)	Wavelength (nm)	Power Consumption (watts)
Standard Fiber Wavelengths					
7207N-1	Fiber SM/DF	1000Mbps	10	1310	< 1.5 (0.45A @ 3.3 VDC)
7207N-2	Fiber SM/DF	1000Mbps	34	1310	< 1.6 (0.48A @ 3.3 VDC)
7207N-3	Fiber SM/DF	1000Mbps	80	1550	< 1.6 (0.48A @ 3.3 VDC)
CWDM Fiber Wavelengths					
73xxN-1	Fiber SM/DF	1000Mbps	40	1470 - 1610	< 1.6 (0.48A @ 3.3 VDC)
73xxN-3	Fiber SM/DF	1000Mbps	80	1470 - 1610	< 1.6 (0.48A @ 3.3 VDC)
Copper					
7299N-RJ	Copper RJ-45	1000Mbps	0.1	-	< 1.5 (0.45A @ 3.3 VDC)
7299N-RJ-GI	Copper RJ-45	10/100/1000Mbps	0.1	-	< 1.5 (0.45A @ 3.3 VDC)
xx is the CWDM wavelength. For example $47 = 1470$ nm $49 = 1490$ nm					

xx is the CWDM wavelength. For example, 47 = 1470nm, 49 = 1490nm.

3.0 SFP-NID INSTALLATION LIMITATIONS

The power required by the SFP-NID needs to be considered when installing the SFP-NID into equipment. Verify that the equipment can provide enough power to power the SFP-NID before installing the device in the equipment (see table above).

3.1 Limitations with Omnitron Equipment

The miConverter S-series S/GXT and S/GXT+ media converters support the 7207N-1 and 7299N-RJ SFP-NID models when powered from a USB 3.0 source or Omnitron supplied power adapter. Check the data sheets for the miConverter S-series and iConverter SFP-NID for operating temperature requirements.

The miConverter 18-Module AC Chassis (model: 1020-1) only supports up to 17 miConverter GXT media converters with any SFP-NID model.