

XC Media Converter 3 Port Safety, Environmental, and Regulatory Information

1 SFP Port and 3 POF Ports XC Media Converter Contents






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Safety, Environmental, and Regulatory Information

Read this document before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards. Visit ni.com/manuals for more information about your product, including specifications, pinouts, and instructions for connecting, installing, and configuring your system.

Icons

Refer to the following descriptions if one of these icons is marked on your product or used in this guide.

-  **Notice** —Take precautions to avoid data loss, loss of signal integrity, degradation of performance, or damage to the product.
-  **Caution** — Take precautions to avoid injury. Consult the product documentation for cautionary statements when you see this icon printed on the product. Cautionary statements are localized into French for compliance with Canadian requirements.
-  **Caution: Possibility of Electric Shock** —Take precautions to avoid electrical shock.
-  **Caution: Hot Surface** — Take precautions to avoid physical burns.
-  **ESD Sensitive** —Take precautions to avoid damaging the product with electrostatic discharge.

Safety Guidelines



CAUTION

Observe all instructions and cautions in the user documentation. Using the product in a manner not specified can damage the product and compromise the built-in safety protection. Return damaged products to NI for repair.



ATTENTION

Suivez toutes les instructions et respectez toutes les mises en garde de la documentation d'utilisation. L'utilisation du produit de toute autre façon que celle spécifiée risque de l'endommager et de compromettre la protection de sécurité intégrée. Renvoyez les produits endommagés à NI pour réparation.

Safety Voltages

Connect only voltages that are below these limits.

V terminal to C terminal 30 V, maximum

Chassis ground to C terminal 30 V, maximum

Safety Compliance and Hazardous Locations Standards

This product is designed to meet the requirements of the following electrical equipment safety standards for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1, CSA C22.2 No. 61010-1



NOTE

For safety certifications, refer to the product label or the [Product Certifications and Declarations](#) section.

Internal Laser Specifications

This product complies with 21 CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

Laser class 1

EMC Guidelines

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility (EMC) stated in the product specifications. These requirements and limits provide reasonable protection against harmful interference when the product is operated in the intended operational electromagnetic environment.

This product is intended for use in industrial locations. However, harmful interference may occur in some installations, when the product is connected to a peripheral device or test object, or if the product is used in residential areas. To minimize interference with radio and television reception and prevent unacceptable performance degradation, install and use this product in strict accordance with the instructions in the product documentation.

Furthermore, any changes or modifications to the product not expressly approved by NI could void your authority to operate it under your local regulatory rules.

EMC Notices

Refer to the following notices for cables, accessories, and prevention measures necessary to ensure the specified EMC performance.



NOTICE

Do not tighten or loosen the terminal screws on the power connector while the XC Media Converter 3 Port is powered on.

Electromagnetic Compatibility

This product meets the requirements of the following EMC standards for electrical equipment for measurement, control, and laboratory use:

- EN 61326-1 (IEC 61326-1): Class A emissions; Industrial immunity
- EN 55011 (CISPR 11): Group 1, Class A emissions
- AS/NZS CISPR 11: Group 1, Class A emissions
- ICES-003: Class A emissions



NOTE

In Europe, Canada, Australia, and New Zealand (per CISPR 11), Class A equipment is intended for use only in heavy-industrial locations.



NOTE

Group 1 equipment (per CISPR 11) is any industrial, scientific, or medical equipment that does not intentionally generate radio frequency energy for the treatment of material or inspection/analysis purposes.



NOTICE

For EMC declarations and certifications, and additional information, refer to the [Product Certifications and Declarations](#) section.

Environmental Guidelines



NOTICE

This product is intended for use in indoor applications only.



NOTICE

Mount the system directly on a flat, rigid surface, using the rear mounting holes, as described in the user manual, affix ferrules to the ends of the terminal wires.



NOTICE

All cabling should be strain-relieved near input connectors. Take care not to directionally bias cable connectors within input connectors when applying strain relief.

Environmental Characteristics

Temperature

Operating	0 °C to 40 °C
Storage	-40 °C to 85 °C

Humidity

Operating	10% RH to 90% RH, noncondensing
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Storage	5% RH to 95% RH, noncondensing
Ingress protection	IP40
Pollution Degree	2
Maximum altitude	5,000 m
Shock and vibration	
Operating vibration, random	0.31 g RMS, 5 Hz to 500 Hz
Operating shock	20 g, 11 ms half sine

Environmental Management

NI is committed to designing and manufacturing products in an environmentally responsible manner. NI recognizes that eliminating certain hazardous substances from our products is beneficial to the environment and to NI customers.

For additional environmental information, refer to the *Engineering a Healthy Planet* web page at ni.com/environment. This page contains the environmental regulations and directives with which NI complies, as well as other environmental information not included in this document.

EU and UK Customers

-  **Waste Electrical and Electronic Equipment (WEEE)** —At the end of the product life cycle, all NI products must be disposed of according to local laws and regulations. For more information about how to recycle NI products in your region, visit ni.com/environment/weee.

电子信息产品污染控制管理办法(中国 RoHS)

-  **中国 RoHS** — NI 符合中国电子信息产品中限制使用某些有害物质指令(RoHS)。关于 NI 中国 RoHS 合规性信息, 请登录 ni.com/environment/rohs_china。(For information about China RoHS compliance, go to ni.com/environment/rohs_china.)

Environmental Standards

This product meets the requirements of the following environmental standards for electrical equipment.

- IEC 60068-2-64 Random operating vibration

- IEC 60068-2-27 Operating shock

**NOTE**

To verify marine approval certification for a product, refer to the product label or visit ni.com/certification and search for the certificate.

Power Requirements

Voltage input range (measured at the XC Media Converter power connector) 9 V DC to 30 V DC

Maximum power consumption

6 W

**NOTE**

The C terminal of the power connector is functionally isolated from chassis ground to prevent ground loops, but does not meet IEC 61010-1 for safety isolation

EMC ratings for voltage input as described in IEC 61000

Short lines and long lines

Power input connector

2-position, 3.5 mm pitch, pluggable screw terminal with screw locks, Sauro CTF02BV8-AN000A

Maximum SFP+ Module Power

0.5 W

Physical Characteristics

Weight

876 g (30.9 oz)

Dimensions

215 mm × 128 mm × 60 mm (8.5 in. × 5.0 in. × 2.4 in.)

Power connector wiring

Gauge

0.5 mm² to 2.1 mm² (20 AWG to 14 AWG) copper conductor wire

Wire strip length

6 mm (0.24 in.) of insulation stripped from the end

Temperature rating

85 °C

Torque for screw terminals

0.20 N · m to 0.25 N · m (1.8 lb · in. to 2.2 lb · in.)

Wires per screw terminal

One wire per screw terminal

Connector securement

Securement type

Screw flanges provided

Torque for screw flanges

0.20 N · m to 0.25 N · m (1.8 lb · in. to 2.2 lb · in.)

Insulation rating

300 V, maximum

Maintenance

If you need to clean your device, wipe it with a dry towel.

Export Compliance

This product is subject to control under the U.S. Export Administration Regulations (15 CFR Part 730 et. seq.) administered by the U.S. Department of Commerce's Bureau of Industry

and Security (BIS) (www.bis.doc.gov) and other applicable U.S. export control laws and sanctions regulations. This product may also be subject to additional license requirements of other countries' regulations.

Additionally, this product may also require export licensing before being returned to NI. The issuance of a Return Material Authorization (RMA) by NI does not constitute export authorization. The user must comply with all applicable export laws prior to exporting or re-exporting this product. See ni.com/legal/export-compliance for more information and to request relevant import classification codes (e.g. HTS), export classification codes (e.g. ECCN), and other import/export data.

Product Certifications and Declarations

Refer to the product Declaration of Conformity (DoC) for additional regulatory compliance information. To obtain product certifications and the DoC for NI products, visit ni.com/product-certifications, search by model number, and click the appropriate link.

Additional Resources

Visit ni.com/manuals for more information about your product, including specifications, pinouts, and instructions for connecting, installing, and configuring your system.

NI Services

Visit ni.com/support to find support resources including documentation, downloads, and troubleshooting and application development self-help such as tutorials and examples.

Visit ni.com/services to learn about NI service offerings such as calibration options, repair, and replacement.

Visit ni.com/register to register your NI product. Product registration facilitates technical support and ensures that you receive important information updates from NI.

NI corporate headquarters is located at 11500 N Mopac Expwy, Austin, TX, 78759-3504, USA.

