2+1 Nano 10/100/1G PoE+ Industrial Ethernet Media Converter with SFP

EMC-N21GP-U-1

Rugged, Ultra Compact, DIN Rail Mountable

The EMC-N21GP-U-1 is an unmanaged, compact, industrial-grade fiber media converter featuring two 10/100/1000Base-T IEEE 802.3at PoE+ Ethernet ports and one 100/1000Base-X SFP fiber interface. The SFP slot supports single-mode or multi-mode fiber and single- or dual-fiber transceivers, providing deployment flexibility for a wide range of applications.

The unit is designed with an ultra-compact form factor for easy installation and integration into other equipment. An integrated 85–250 VAC power input eliminates the need for an external power adapter, reducing system cost and space requirements and making the device suitable for small cabinets or enclosures where a separate AC-DC power supply is not available.

The PoE+ Ethernet ports supply data and power to compliant Powered Devices (PDs), delivering up to 30 W per port in accordance with the IEEE 802.3at standard.

A North America–style power cord is pre-installed and may be removed or replaced to meet regional installation requirements.

The EMC-N21GP-U-1 is designed for operation in harsh industrial environments, including manufacturing, transportation, oil and gas, chemical processing, IP surveillance, and industrial automation, where operating conditions exceed those of commercial-grade networking equipment.

2+1 Nano Industrial PoE Media Converter

Key Features

- 2x10/100/1000Base-T RJ45 PoE Ports, 1x100/1000Base-X SFP Fiber Port

- Integrated 85-250VAC power input, AC power cord included

- Supports Full/Half-duplex, Auto-negotiation

- Supports 9KB Jumbo frame and 1MB packet buffer

- Vertical connections for housings with a low installation depth

- IEEE 802.3az Energy Efficient Ethernet (EEE)

- Supports DIN-Rail & Wall-mount installation

- Small & Compact Size

- Robust aluminum housing

- Hardened to operate in -40°C to 80°C (40°F to +185°F)
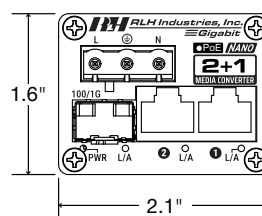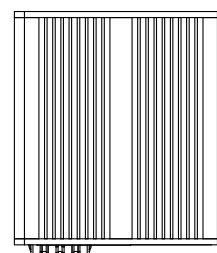
- CE, FCC Class A, and RoHS Compliant
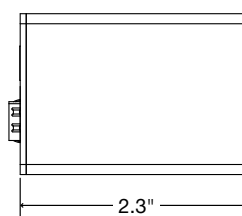
Dimensions

(DIN Rail Clip and Wall Mount Bracket not shown)

Top View

Front View   Side View

General Specifications

Ethernet Standards	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/FX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE 802.3az Energy Efficient Ethernet (EEE), IEEE 802.3at/af Power over Ethernet (PoE)
Processing Type	Store-and-Forward
Forward Filter Rate	14,880pps (10Mbps), 148,800pps (100Mbps), 1,488,000pps (1000Mbps)
Packet Buffer Memory	1MB
Max Packet Length	9KB
Address Table Size	2K MAC Addresses
Interface	2x RJ45 10/100/1000Base-T, 1 x SFP 100/1000Base-X
Input Power	85~250VAC or 125VDC 3-pin terminal block
Power Consumption	5 W maximum, excluding PoE load
PoE Standard	IEEE 802.3at Power over Ethernet Plus/PSE
PoE Power Supply Type	Mid-span
Power Pin Assignment	4/5 (+), 7/8 (-)
PoE Power Output	Per port 54V DC, Max. 30 watts
PoE Power Budget	30W Max per PoE port, 40W PoE Max Budget
Dimensions (WxDxH)	53mm (W) x 40mm (D) x 58mm (H) (2.09" (W) x 1.57" (D) x 2.28" (H))
Weight	0.15Kg (5.29oz)
Housing	Aluminum Alloy
Mounting Options	DIN-Rail Mount
LED Indicators	PW — On: Power Supply Normal; Off: Power not connected PoE — PoE Status L/A (RJ45) — On: A network device is connected; Off: No network device connected L/A (RJ45) — Blinking: Data transmission L/A (SFP) — On: Fiber connected; Off: Fiber not connected L/A (SFP) — Blinking: Data transmission
Operating Temperature	-40°C to 80°C (-40°F to 176°F)
EMC/EMI/EMS	EN61000-4-2 (ESD): LEVEL 4, IEC 6100-4-2 (EFT): LEVEL 4, IEC 6100-4-2 (Surge): LEVEL 4, IEC 6100-4-2 (CS): LEVEL 3, IEC 61000-4-2(PFMP): LEVEL 5, EN61000-4-3 (RS): LEVEL 4
Stability Testing	IEC 60068-2-32 (free fall), IEC 60068-2-27 (shock), IEC 60068-2-6 (vibration)
Compliance	CE, FCC Class A, and RoHS Compliant
MTBF	> 200,000 hrs

Ordering Information

Description	Part Number
2+1 Nano 10/100/1G PoE+ Industrial Ethernet Media Converter, 100/1G SFP, Universal Power Input 85-250VAC/125VDC	EMC-N21GP-U-1

- Contact your RLH Sales Representative for more information

Contact

By Mail: ATTN: Sales
RLH Industries, Inc.
936 N. Main Street
Orange, CA 92867

By Phone:	**Local**	714-532-1672
Sales/Service	**Toll Free**	800-877-1672
By Email:	info@fiberopticlink.com	
By Fax:	714-532-1885	

Support

By Email:	support@fiberopticlink.com
By Phone:	Toll Free 855-754-2497