EC4

Long Reach PoE over Coax

Fast Ethernet and PoE++ (Up to 50W) over Coax

PN: NV-EC-04   **UPC: 735890500070**

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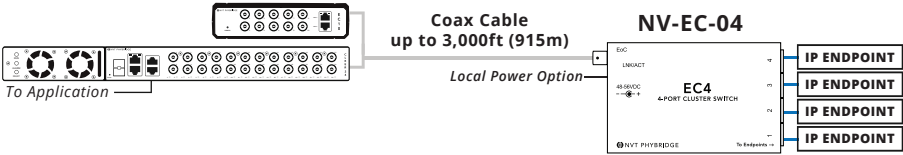**MADE IN CANADA**

EC4 (NV-EC-04)

· Paired with CLEER24, EC10 or EC-Base
· 1 uplink port and 4 downlink ports
· Up to 50W PoE per downlink port
· Can be locally powered (optional)
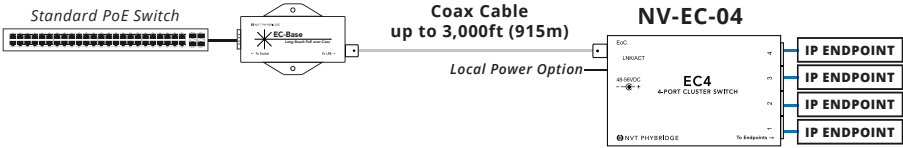
EC4 Adapter Applications

The EC4 Adapter enables extended Ethernet and PoE reach beyond traditional distances using coax infrastructure. When paired with the CLEER24 Switch, EC10 Switch or EC-Base Extender, the Adapter delivers 100Mbps, symmetrical full duplex. The EC offering is designed specifically to enable easy deployment over coax for reaches beyond that of standard Ethernet eliminating the costs and disruption associated with IDF closet requirements.

100 Mbps (full duplex, symmetrical) & PoE++ over Coax with 3,000ft (915m) reach.

NV-CLR-024/NV-EC-10

To Application

Coax Cable up to 3,000ft (915m)

Local Power Option

NV-EC-04

EC4
4-PORT CLUSTER SWITCH

IP ENDPOINT
IP ENDPOINT
IP ENDPOINT
IP ENDPOINT

To Endpoints →

NV-ECLK-BSE*

Standard PoE Switch

EC-Base

Coax Cable up to 3,000ft (915m)

Local Power Option

NV-EC-04

EC4
4-PORT CLUSTER SWITCH

IP ENDPOINT
IP ENDPOINT
IP ENDPOINT
IP ENDPOINT

To Endpoints →

*Base Extender can be powered locally for use with non-PoE switches.

Technical Specifications

Model	EC4
Part Number	NV-EC-04
Dimensions	• 11cm x 7cm x 2.5cm (LxWxH); • 4.3" x 2.75" x 0.98" (LxWxH)
Weight	96g (3.38oz.)
Interface: Network Infrastructure side (CLEER)	1 BNC port: Coax cable (RG59, RG6, RG11)
Interface: IEEE Side (IP Device)	4 RJ45 ports: devices must be IEEE 802.3 af/at compliant
Power Supply	PoE from the CLEER / EC switch, or external power supply; maximum 50W (over 4-pairs) each port

DC IN	Optional (sold separately) 48V – 56VDC via an external AC/DC Power Adapter (IEC Class II isolated only) with barrel connector NOTE 1: Local power supply used must have its output isolated from Earth potential. NOTE 2: If voltage of local power supply is lower than the power voltage provided from the PoE switch, then power on the PoE switch should be turned off.
Power Consumption	1W
Operating temperature	-40°C to +70°C (-40°F to +158°F) *Tests conducted against international safety standard at maximum ambient temperatures of 50°C*
Mean Time Before Failure (MTBF)	20+ years
Humidity	10% to 95% (non-condensing) at 35° C

EC4 Quick Install Guide

1. Remove the EC4 from its packaging.
2. Must ensure cable is properly terminated before connecting any EC product.
3. Remove all legacy equipment from the Coax cable infrastructure.
   NOTE: In order to avoid damage to endpoints, it is important that non-IP devices are not connected when you connect the EC4.
4. Connect the Network Infrastructure cable from the CLEER24 switch, EC10 switch, or EC-Base to the EC4 (LRE side).
5. Using CAT5 or higher category cable, connect the endpoint to EC4 (Endpoint side). Endpoint device must be IEEE 802.3 af/at compliant.
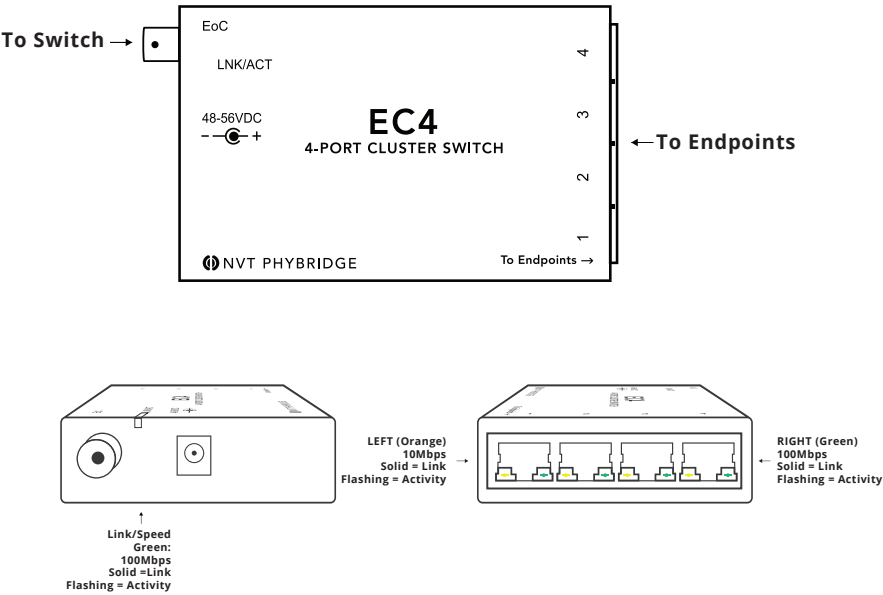
Note the following:

All of the above instructions provide basic installation information necessary for the proper and safe functioning of this equipment. Persons installing or maintaining this product must read all of the safety instructions and the parts of system grounding, which are applicable to the system being maintained. Only trained, qualified service personnel shall install or maintain this product.

WARNING: FAILURE TO FOLLOW ALL INSTRUCTIONS MAY RESULT IN IMPROPER EQUIPMENT OPERATION AND/OR RISK OF ELECTRICAL SHOCK.

WARNING: ANY CONNECTION TO AN OUTSIDE PLANT LEAD, AN OFF-PREMISE APPLICATION, OR ANY OTHER EXPOSED PLANT APPLICATION MAY RESULT IN A FIRE OR SHOCK HAZARD, AND/OR DEFECTIVE OPERATION, AND/OR EQUIPMENT DAMAGE.

- Keep these instructions with the equipment.
- Do not attempt to install or service this equipment unless you are skilled in the installation and maintenance of electronic telecommunications equipment and have successfully completed specific training for this equipment.

⚠ Safety Warnings and Precautions

- Refer to the CLEER24 or EC10 Quick Install Guides under "Safety Warnings" for the EC adapters
- Reportez-vous aux Quick Install Guides CLEER24 ou EC10 sous "Safety Warnings" pour les adaptateurs EC
- Beachten Sie die CLEER24- oder EC10- Quick Install Guides unter "Safety Warnings" für die EC-Adapter
- Consulte las Quick Install Guides CLEER24 o EC10 bajo "Safety Warnings" para los adaptadores EC
- Katso pleeg CLEER24- tai EC10 Quick Install Guides EC-sovittimien "Safety Warnings" alla
- Raadpleeg de CLEER24 of EC10 Quick Install Guides onder "Safety Warnings" voor de EC-adapter
- Se CLEER24 eller EC10 Quick Install Guides under "Safety Warnings" för EC-adaptrarna
- Se CLEER24 eller EC10 Quick Install Guides under "Safety Warnings" for EC-adaptere
- Ανατρέξτε στους οδηγούς CLEER24 ή EC10 Quick Install Guides στην ενότητα "Safety Warnings" για τους προσαρμογείς EC
- Fare riferimento alla sezione CLEER24 o EC10 Quick Install Guides sotto "Safety Warnings" per gli adattatori EC
- Consulte o CLEER24 ou EC10 Quick Install Guides em "Safety Warnings" para os adaptadores EC
- Irreferi għall-CLEER24 jew EC10 Quick Install Guides taħt "Safety Warnings" għall-adapters EC
- Vaadake CLEER24 või EC10 Quick Install Guides alusel "Safety Warnings" EC adapterid
- A EC adapterek "Safety Warnings" címú részében olvassa el a CLEER24 vagy a EC10 Quick Install Guides címú részt
- Nanašajo na CLEER24 ali EC10 Quick Install Guides pod "Safety Warnings" za EC adapterji
- Další informace naleznete v příručkách CLEER24 nebo EC10 Quick Install Guides v části "Safety Warnings" pro adaptéry EC
- Kreiptis į CLEER24 ar EC10 Quick Install Guides pagal "Safety Warnings" Už EC adapteriai
- Skatiet CLEER24 vai EC10 Quick Install Guides zem "Safety Warnings," lai EC adapteri
- Pozrite si CLEER24 alebo EC10 Quick Install Guides v časti "Safety Warnings" pre adaptéry EC
- Sjá CLEER24 eða EC10 Quick Install Guides undir "Safety Warnings " fyrir EC-millistykki
- Zobacz CLEER24 lub EC10 Quick Install Guides w sekcji "Safety Warnings" w przypadku adapterów EC
- Se CLEER24 eller EC10 Quick Install Guides under "Safety Warnings" for EC-adaptere
- Consultaţi ghidurile CLEER24 sau EC10 Quick Install Guides din secţiunea "Safety Warnings" pentru adaptoarele EC
- Обърнете се към CLEER24 или EC10 Quick Install Guides в "Safety Warnings" за адаптери EC

Compliance and Environmental Information

All the compliance and environmental information is available on our website www.nvtphybridge.com

PoE Power Available to EC4

	RG59	RG6	RG11
EC4	**100Mbit**	**100Mbit**	**100Mbit**
	1,500ft (475m)	2,000ft (610m)	3,000ft (915m)
	19W	24W	28W

Support and Warranty

Technical Support

The NVT Phybridge Technical Support Group is available to assist you with product installation, configuration, monitoring and troubleshooting procedures. Should you experience trouble with this equipment or for repair or warranty information, please contact NVT Phybridge at www.nvtphybridge.com/support/ or directly through email at support@nvtphybridge.com.

Warranty: The EC adapters are backed by NVT Phybridge's award-winning customer support and 5-year warranty.