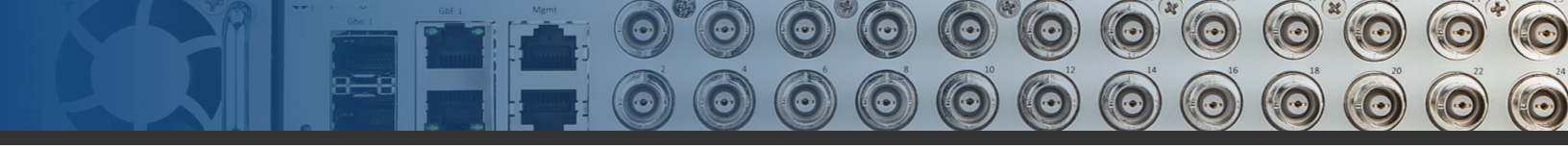

CLEER FAMILY ADAPTER OPTIONS

EC Adapter Options

There are three media converter options available to pair with the CLEER family of switches to extend PoE over Coax. The EC-Link and EC Link+ are single endpoint solutions and the EC4 enables 4 IP endpoints from a single long run Coax cable.

EC-Link

EC-Link+

EC4

	EC-Link	EC-Link+	EC4
Power	• Maximum 30W, delivered on 2-pairs (spare pairs) • Local power option • Does not negotiate power requirements with IP device • Device must be IEEE 802.3 af/at compliant	• Maximum 50W (If locally powered and 30W if power provided from switch) delivered on 4 pairs • Local power option • Adapter is IEEE 802.3af/at compliant and will negotiate power requirements with IP device	• Receives and delivers PoE power (up to 30w) from EC10, CLEER24 or EC-Base • EC4 enables IEEE 802.3 AF/AT compliant IP endpoints • Can be locally powered (optional) and deliver up to 50 watts per port with a maximum overall power budget of 165W
Casing	Plastic	Metal	Plastic
EN 50121-4 Standard	Yes – approved to operate in a railway/subway environment		

EC Adapters Technical Specifications

Model Number	EC-Link	EC-Link+	EC4
Part Number	NV-ECLK	NV-ECLK-PLS	NV-EC-04
Dimensions	8.8cm x 3.2cm x 2.1cm (LxWxH); 3.46" x 1.23" x 0.83" (LxWxH)	10.09cm x 5.03cm x 2.57cm (LxWxH); 3.97" x 1.98" x 1.01" (LxWxH)	11cm x 7cm x 2.5cm (LxWxH); 4.3" x 2.75" x 0.98" (LxWxH)
Weight	42g (1.48oz.)	108g (3.81oz.)	96g (3.38oz.)
Interface: Network Infrastructure side (CLEER)	1 BNC port: Coax cable (RG59, RG6, RG11)	1 BNC port: Coax cable (RG59, RG6, RG11)	1 BNC port: Coax cable (RG59, RG6, RG11)
Line Speed	10/100Mbps full duplex	10/100Mbps full duplex	100Mbps full duplex
Interface: IEEE Side (IP Device)	1 RJ45 port; device must be IEEE 802.3 af/at compliant	1 RJ45 port; adapter is IEEE 802.3af/at compliant and will negotiate power requirements with IP end device.	4 RJ45 ports: devices must be IEEE 802.3 af/at compliant
Power Supply	PoE from the CLEER / EC switch or from EC-Base, maximum 30W (over 2-pairs)	Maximum 50W from CLEER / EC switch (If locally powered and 30W if power provided from switch) delivered on 4 pairs.	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 with phoenix connector (IEC Class II isolated only) 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.	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.	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	0.9W	1.1W	1W
Operating Temperature	-58°F to +158°F (-50°C to +70°C) *Tests conducted against international safety standard at maximum ambient temperatures of 50°C*	-58°F to +158°F (-50°C to +70°C) *Tests conducted against international safety standard at maximum ambient temperatures of 60°C at 30W and 55°C at 50W*	-58°F to +158°F (-50°C to +70°C) *Tests conducted against international safety standard at maximum ambient temperatures of 50°C*
Mean Time Before Failure (MTBF)	20+ years	20+ years	20+ years
Humidity	10% to 95% (non-condensing) at 35° C	10% to 95% (non-condensing) at 35° C	10% to 95% (non-condensing) at 35° C

EC Adapters Compliance and Agency Approval

EMC	Emissions: FCC Part 15, ICES-003, EN 55032:2012, EN 50121-4:2015 Class A (EC4) Class B (EC-Link and EC-Link+) Immunity: EN 55024:2010, EN 50121-4:2015
Safety	UL 60950-1 2nd Ed 2014-10-14, CAN/CSA C22.2 No. 60950-1-07 2nd Ed 2014-10 IEC 62368-1:2014, EN 62368-1:2014, AS/NZS 62368.1:2018
Environment	RoHS Directives 2011/65 and 2015/863