

TECHNICAL SPECIFICATIONS

ELECTRICAL

Operating Voltage	
Pass-Through Mode	
1 CH	N/A; Optional input voltage 12 to 32 VDC or 18 to 32 VAC
4 CH	12 VDC, 5W; 9 VDC† when in a USRACK or EURACK
8 CH	12 VDC, 10 W
16 CH	12 VDC, 20 W
Power Injection Mode	
1 CH	48 to 56 VDC, 30 W
4 CH	48 to 56 VDC, 120 W
8 CH	48 to 56 VDC, 240 W
16 CH	48 to 56 VDC, 480 W
Current Protection	Automatic resettable solid-state current limiters
MTBF	>100,000 hours
LED Indicators	Operating power; PoE power; Ethernet link and activity; extended link and activity

DATA

Data Interface	10/100Base-T Ethernet
Data Rate	DIP switch selectable 10/100 Mbps; full data rate/full-duplex up to the maximum rated distance
RFC	2544 TCP/IP packet transmission
Standards	
PoE+	IEEE802.3af/at
RFC	768 UDP, 2068 HTTP, 793 TCP, 791 IP, 1783 TFTP, 894 IP over Ethernet

Maximum Transmission Distances

Media	COAX-RG59/U				UTP, 4 Pair			
	10 Mbps		100 Mbps		10 Mbps		100 Mbps	
Camera Data Rate	15 W		30 W		15 W		30 W	
Source Power	15 W		30 W		15 W		30 W	
Non-PoE Camera*	1,524 m (5,000 ft)		549 m (1,800 ft)		914 m (3,000 ft)		610 m (2,000 ft)	
Remote Injection*	1,524 m (5,000 ft)		549 m (1,800 ft)		914 m (3,000 ft)		610 m (2,000 ft)	
PoE CLASS2 Camera (6.5 W)*	914 m (3,000 ft)		549 m (1,800 ft)		914 m (3,000 ft)		610 m (2,000 ft)	
PoE CLASS3 Camera (13 W)* (10 W in pass-through mode)	259 m (850 ft)	259 m (850 ft)	259 m (850 ft)	259 m (850 ft)	259 m (850 ft)	259 m (850 ft)	259 m (850 ft)	259 m (850 ft)
PoE CLASS4 Camera (25.5 W)* (22 W in pass-through mode)	N/A	102 m (335 ft)	N/A	102 m (335 ft)	N/A	N/A	N/A	N/A

*Distance figures are based on a 50 V PSE PoE power source, and external power supplies for the extenders. Distance figures are obtained using in-house testing mirroring installations. Factors such as coaxial and copper cable quality, the number of connectors and splices in the cable run, the use of PoE, and environmental conditions encountered within the installation might affect the actual transmission distance and should be taken into consideration.

MECHANICAL

Connectors	
Ethernet	RJ-45
Extended Interface	
Coaxial	Female BNC
UTP	RJ-45
Operating Power	Powered by PoE or two-pin screw terminal

GENERAL

Dimensions	
1 CH	8.4 x 6.4 x 2.8 cm (3.3" D x 2.5" W x 1.1" H)
4 CH	15.5 D x 13.5 x 2.8 cm (6.1" x 5.3" W x 1.1" H)
8 CH	15.5 x 48.26 x 4.45 cm (6.1" D x 19" W x 1.75" H)
16 CH	15.5 x 48.26 x 4.45 cm (6.1" D x 19" W x 1.75" H)
Operating Temperature	-40° to 75°C (-40° to 167°F)
Storage Temperature	-40° to 80°C (-40° to 176°F)
Relative Humidity	0% to 95%, noncondensing
Shipping Weight	
1 CH	<0.5 kg (1 lb)
4 CH	<0.9 kg (2 lb)
8 CH	<2.3 kg (5 lb)
16 CH	<2.3 kg (5 lb)

CERTIFICATIONS/RATINGS

- CE, Class A
- FCC, Part 15, Class A
- UL/cUL Listed
- C-Tick
- Designed to meet NEMA TS-1/TS-2 and the Caltrans traffic signal control equipment environmental standards

RECOMMENDED ACCESSORIES

ECPS-12VDC-0.5A†	EthernetConnect 12 VDC, 0.5 A power supply for non-pass-through mode applications
ECPS-12VDC-3A†	EthernetConnect 12 VDC, 3 A power supply for non-PoE pass-through mode applications on EC-3008CLPOE-R, EC-3008ULPOE-R, EC-3016CLPOE-R, and EC-3016ULPOE-R
FEXTPS-48V†	EthernetConnect 48 VDC, 1.36 A power supply for power injection mode applications
ECPS-48VDC-5A†	EthernetConnect 48 VDC, 5 A power supply for power injection mode applications
ECPS-48VDC-10A†	EthernetConnect 48 VDC, 10 A power supply for power injection mode applications
USRACK†	Rack-mount chassis, 14-slot, 9 VDC, 6.5 A, internal power supply, US power cord
EURACK†	Rack-mount chassis, 14-slot, 9 VDC, 6.5 A, internal power supply, EU power cord
RACK1B	Single-width blank module for empty rack slots

†Contact Pelco pre-sales support, or refer to the appropriate installation and operation manual when configuring and specifying power for a deployment.

TECHNICAL SPECIFICATIONS

MODELS

EC-3000C SERIES (COAXIAL CABLE)

Local

EC-3001CLPOE-M	EthernetConnect local single-port coaxial extender with true PoE to 30 W, EoC using coaxial cable, mini case, 12 VDC/48 VDC, 24 VAC
EC-3004CLPOE-W	EthernetConnect local 4-port coaxial extender with true PoE to 30 W, EoC using coaxial cable, wall-mount
EC-3008CLPOE-R	EthernetConnect local 8-port coaxial extender with true PoE to 30 W, EoC using coaxial cable, 1 RU rack-mount
EC-3016CLPOE-R	EthernetConnect local 16-port coaxial extender with true PoE to 30 W, EoC using coaxial cable, 1 RU rack-mount

Remote

EC-3001CRPOE-M	EthernetConnect remote single-port coaxial extender with true PoE to 30 W, EoC using coaxial cable, mini case, 12 VDC/48 VDC, 24 VAC
EC-3004CRPOE-W	EthernetConnect remote 4-port coaxial extender with true PoE to 30 W, EoC using coaxial cable, wall-mount

FRONT AND REAR PANEL LAYOUTS (COAXIAL)

EC-3000U SERIES (UTP CABLE)

Local

EC-3001ULPOE-M	EthernetConnect local single-port UTP extender with true PoE to 30 W, EoC using Cat5/Cat5e/Cat6 UTP, mini case, 12 VDC/48 VDC, 24 VAC
EC-3004ULPOE-W	EthernetConnect local 4-port UTP extender with true PoE to 30 W, EoC using Cat5/Cat5e/Cat6 UTP, wall-mount
EC-3008ULPOE-R	EthernetConnect local 8-port UTP extender with true PoE to 30 W, EoC using Cat5/Cat5e/Cat6 UTP, 1 RU rack-mount
EC-3016ULPOE-R	EthernetConnect local 16-port UTP extender with true PoE to 30 W, EoC using Cat5/Cat5e/Cat6 UTP, 1 RU rack-mount

Remote

EC-3001URPOE-M	EthernetConnect remote single-port UTP extender with true PoE to 30 W, EoC using Cat5/Cat5e/Cat6 UTP, mini case, 12 VDC/48 VDC, 24 VAC
EC-3004URPOE-W	EthernetConnect remote 4-port UTP extender with true PoE to 30 W, EoC using Cat5/Cat5e/Cat6 UTP, wall-mount

FRONT AND REAR PANEL LAYOUTS (UTP)

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