

Ethernet Bridge with POE

Coax to Connect Power and Ethernet



Features & Benefits

- Adds Ethernet connectivity with power to any room
- Uses existing / easily installed coax, RG-59, RG-6, RG-11
- Up to 25.5Watts of "Power-over-Ethernet" (POE) to power Wi-Fi hot spots, security cameras, anything using IEEE 802.3af/at standard
- Data communication secured with 128-bit AES encryption
- Frees the operator from utility power considerations in the room
- Ethernet speeds – unit performance @ 1Gbps/port, RF backbone @ 3Gbps
- Co-exists with cable TV/broadband services
- Wall plate and desktop/surface mount form factors are quick and easy to install



Overview

Continuing the tradition of innovation of the Entry Series®, PPC expands the Ethernet Bridge product series by adding POE (Power-over-Ethernet) capability. An operator can use existing coax to distribute power, RF and Ethernet to any room, or group of rooms. An operator no longer needs to worry about co-locating utility power in the room to power Ethernet devices such as Wi-Fi hot spots or security cameras. Anywhere coax can go, so can a Wi-Fi hot spot or other POE device.

The Ethernet Bridge product series provides coaxial cable network connectivity to broadband devices and CPE, such as modems, while connecting Ethernet and optionally POE to Ethernet-enabled devices, such as remote set-top boxes or wireless extension units. The Ethernet Bridge turns RF coaxial cable into an Ethernet network enabling full wired Ethernet speeds to the most demanding devices.

Technical Data

Hardware Specifications

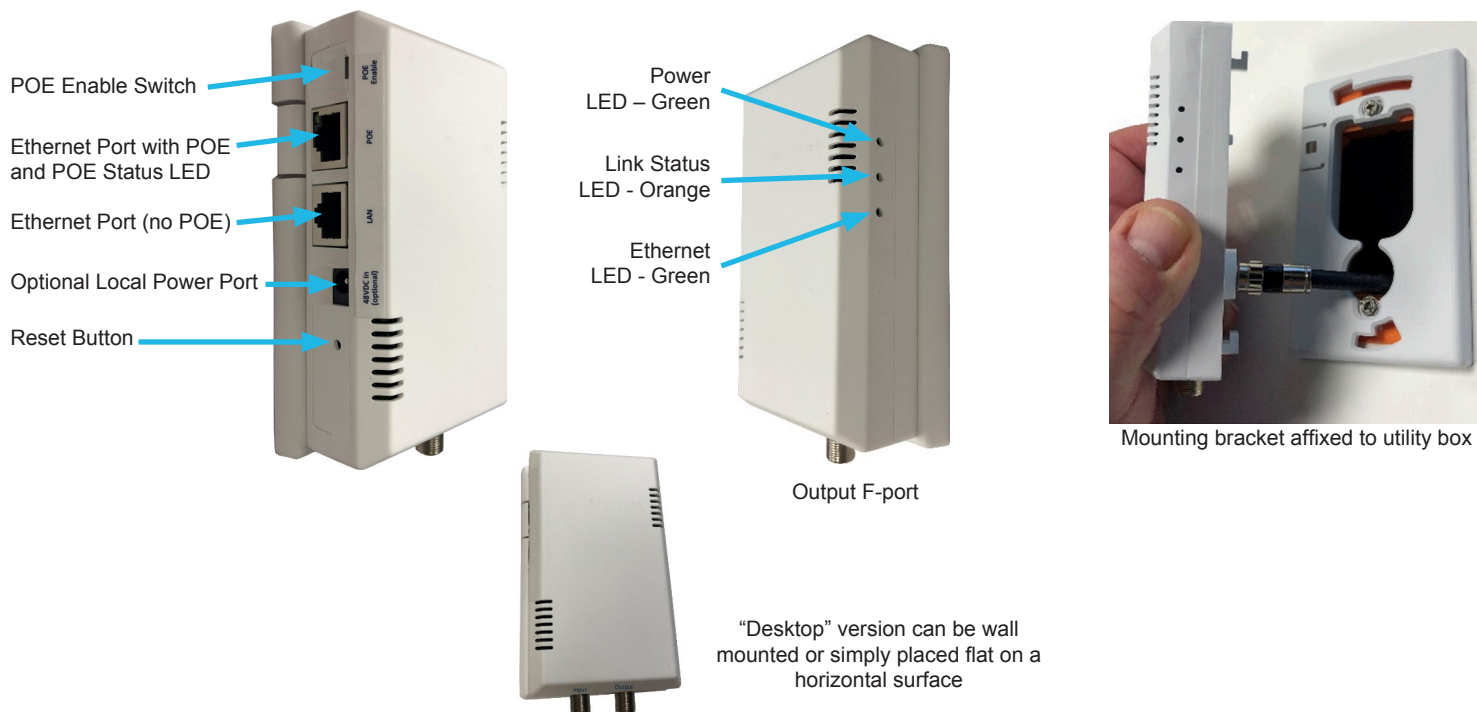
Specification	Value		
Interfaces	Left Face	Two 10/100/1000 Base T Ethernet ports, top port capable of 25.5Watts POE power, 48VDC One LED on POE port to display status of POE power One slide switch to enable/disable POE power One optional Direct Powering Port, 42 – 57VDC One Reset Button	
	RF	Two F-port female connectors Input: RF, Ethernet, Remote DC power Output: RF only	Wall plate version: Input on back of unit Desktop/Surface Mount version: Input next to output on bottom
		Right Face	Power LED (top-green), Link LED (middle-orange), Ethernet activity LED (green-bottom)
	Dimensions	Fits over a standard utility/low voltage 3 ¾" X 2 ½" wall box, Mounted product: 4 ¾"H x 3"W x 1 ½"D	
Link Attenuation	70dB maximum, combination of passive and cable loss at highest operating frequency		
Performance	Backbone up to 3.3Gbps, with 1Gbps @ each Ethernet port		
Frequency Band	PEPC4x1x12P-xx: Broadband: 5 – 1002MHz, Ethernet via Coax: 1125 – 1675MHz		
	PEPC4x2x12P-xx: Broadband: 5 – 1218MHz, Ethernet via Coax: 1325 – 1675MHz		
	PEPC4x9x12P-xx: Ethernet via Coax: 400 – 900MHz, Satellite/other 950 – 2100MHz		
Power	Each PEPC wall plate consumes 2Watts and provides up to 25.5Watts of 48VDC POE power, total 27.5Watts Incoming voltage at the PEPC wall plate and POE voltage 42 – 57VDC POE interface complies to IEEE 802.3af/at standard. + pins (1,2) (4,5), - pins (3,6) (7,8)		

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Ordering Information

Part Number	Description
PEPC4M1W12P-xx	Ethernet Bridge w POE Wall plate 5 – 1002MHz, 48VDC nominal, Mesh/unmanaged topology Includes mounting bracket, Requires power source, xx=customer logo code (BL=blank)
PEPC4M2W12P-xx	Ethernet Bridge w POE Wall plate 5 – 1218MHz, 48VDC nominal, Mesh/unmanaged topology Includes mounting bracket, Requires power source, xx=customer logo code (BL=blank)
PEPC4A1W12P-xx	Ethernet Bridge w POE Wall plate 5 – 1002MHz, 48VDC nominal, Access/managed topology Includes mounting bracket, Requires power source, xx=customer logo code (BL=blank)
PEPC4A2W12P-xx	Ethernet Bridge w POE Wall plate 5 – 1218MHz, 48VDC nominal, Access/managed topology. Includes mounting bracket, Requires power source, xx=customer logo code (BL=blank)
PEPC4A9W12P-xx	Ethernet Bridge w POE Wall plate 950 – 2100MHz, 48VDC nominal, Access/managed topology. Includes mounting bracket, Requires power source, xx=customer logo code (BL=blank)
PEPC4A1D12P-xx	Ethernet Bridge w POE Desktop/Surface Mount 5 – 1002MHz, 48VDC nominal, Access/managed topology. Requires power source, xx=customer logo code (BL=blank)
PEPC4A2D12P-xx	Ethernet Bridge w POE Desktop/Surface Mount 5 – 1218MHz, 48VDC nominal, Access/managed topology. Requires power source, xx=customer logo code (BL=blank)
PEPC4A9D12P-xx	Ethernet Bridge w POE Desktop/Surface Mount 950 – 2100MHz, 48VDC nominal, Access/managed topology. Requires power source, xx=customer logo code (BL=blank)
PPC-PS48750	Entry “Local” Power Supply – Input: 100-240VAC, Output: 48VDC 750mA (36Watts) Optional local power supply if central/coaxial powering configuration is not used

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