Ethernet Bridge with POE

Coax to Connect Power and Ethernet

A BELDEN BRAND

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 – port performance @ 1.0 and 2.5Gbps
- Optionally co-exists with cable TV/broadband services
- Wall-plate and desktop form factors are quick and easy to install



Ethernet Bridge with POE wall-plate

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. No longer does an operator need to worry about co-locating utility power in the room to power Ethernet devices such as WIFI hot spots or security cameras. Anywhere coax can go, so can go a WIFI 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.

Technical Data

Hardware Specifications

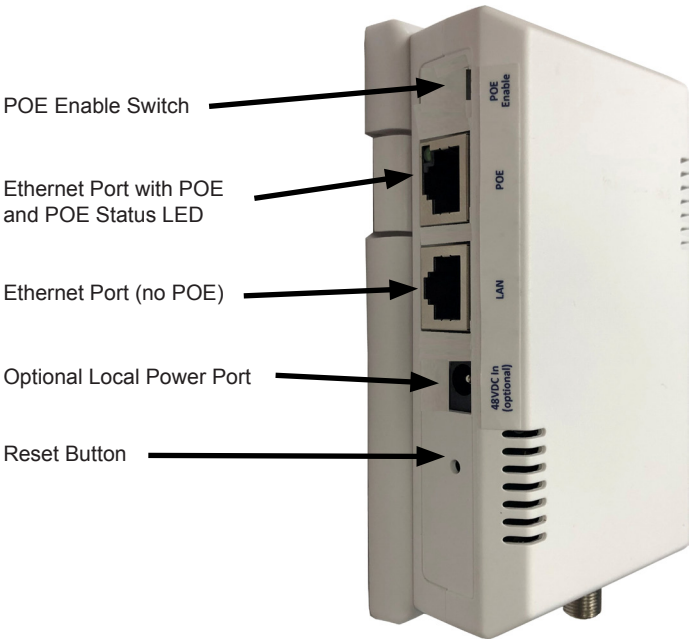
Specification	**Value** (wallplate version only)		
Interfaces	Left Face	Two 10/100/1000 Base T Ethernet ports, top port capable of 25.5Watts POE power, 48VDC One LED on POE port to display status of POE power One slide switch to enable/disable POE power One optional Direct Powering Port, 42 – 57VDC One 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
	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 or 2.5Gbps at Ethernet ports		
Frequency Band	PEPC4x**1**x12P-xx: Broadband: 5 – 1002MHz, Ethernet via Coax: 1125 – 1675MHz		
	PEPC4x**2**x12P-xx: Broadband: 5 – 1218MHz, Ethernet via Coax: 1325 – 1675MHz		
	PEPC4x**9**x12P-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)		

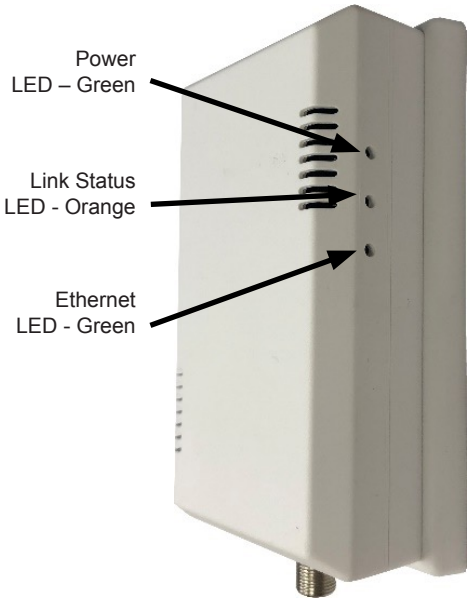
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Product Features





Output F-port



"Desktop" version can be wall mounted or simply placed flat on a horizontal surface



Input F-port &
Mounting bracket affixed to utility box

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Ordering Information

Part Number	Description
1.0Gbps Units	
PEPC4M1W12P	Ethernet Bridge w POE Wallplate 1.0Gbps CATV 5 – 1002MHz DATA 1125 – 1675MHz 48VDC Mesh/unmanaged topology. Includes mounting bracket. Requires power source
PEPC4M2W12P	Ethernet Bridge w POE Wallplate 1.0Gbps CATV 5 – 1218MHz DATA 1350-1675MHz 48VDC Mesh/unmanaged topology. Includes mounting bracket. Requires power source
PEPC4A1W12P	Ethernet Bridge w POE Wallplate 1.0Gbps CATV 5 – 1002MHz DATA 1125 – 1675MHz 48VDC Access/managed topology. Includes mounting bracket. Requires power source
PEPC4A2W12P	Ethernet Bridge w POE Wallplate 1.0Gbps CATV 5 – 1218MHz DATA 1350 – 1675MHz 48VDC Access/managed topology. Includes mounting bracket. Requires power source
PEPC4A9W12P	Ethernet Bridge w POE Wallplate 1.0Gbps DATA 400 – 900MHz SAT 950 – 2100MHz 48VDC Access/managed topology. Includes mounting bracket. Requires power source
2.5Gbps Units	
PEPC4M1W22P	Ethernet Bridge w POE Wall-plate 2.5Gbps CATV 5 – 1002MHz DATA 1125 – 1675MHz, 48VDC, Mesh/unmanaged topology. Includes mounting bracket, Requires power source
PEPC4M2W22P	Ethernet Bridge w POE Wall-plate 2.5Gbps CATV 5 – 1218MHz DATA 1350-1675MHz, 48VDC, Mesh/unmanaged topology. Includes mounting bracket, Requires power source
PEPC4A1W22P	Ethernet Bridge w POE Wall-plate 2.5Gbps CATV 5 – 1002MHz DATA 1125 – 1675MHz, 48VDC, Access/managed topology. Includes mounting bracket, Requires power source
PEPC4A2W22P	Ethernet Bridge w POE Wall-plate 2.5Gbps 5 – 1218MHz, 48VDC nominal, Access/managed topology. Includes mounting bracket, Requires power source
PEPC4A9W22P	Ethernet Bridge w POE Wall-plate 2.5Gbps 950 – 2100MHz, 48VDC nominal, Access/managed topology. Includes mounting bracket, Requires power source
IRISCMDL3G100	Ethernet Bridge Desktop 2.5Gbps DATA 400 – 900MHz, SAT 950 – 2300MHz, 12VDC, Access/managed topology. Local power only, no POE capability. Includes 12VDC power supply
IRISCMDH3G100	Ethernet Bridge Desktop 2.5Gbps CATV 5 – 1002MHz, DATA 1125 – 1675MHz, 12VDC, Access/managed topology. Local power, no POE capability only. Includes 12VDC power supply
Accessories	
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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These products may be protected by one or more patents. For further information, please visit: www.ppc-online.com/patents

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