PEBC Ethernet Bridge

Use coax to connect Ethernet

A BELDEN BRAND

Features & Benefits

- Adds Ethernet connectivity with power to any room
- Uses existing / easily installed coax
- Enhances a Wi-Fi network with wired speeds and reliability
- Two 1Gbps Ethernet ports with built-in switch
- Ethernet speeds – unit performance @ 1Gbps/port, RF backbone @ 3Gbps
- Co-exists with cable TV/broadband services
- Powered directly/locally or via the coax cable
- Wall-plate and desktop form factors are quick and easy to install

"BL" version of PEBC module



Overview

Continuing the tradition of innovation of the Entry Series®, PPC introduces the PEBC Ethernet Bridge series. An operator can use existing coax to distribute power, broadband RF and Ethernet to any room or group of rooms. Available in both "Mesh" (peer/peer) or "Access" (managed host/client), the PEBC can turn existing coaxial cable into an Ethernet network for both single-family (SFU) and multi-family (MDU) connectivity.

The PEBC can be powered from a central point over the coax cable or can be powered locally from a wall mount power supply. Available as either a wall-plate replacing an existing F81 wall plate, or as a desktop unit, the PEBC provides the operational flexibility needed for any application. The PEBC Ethernet Bridge turns RF coaxial cable into an Ethernet network enabling full wired Ethernet speeds to the most demanding devices.

Technical Data

Specification	Value (wallplate version only)		
Interfaces:	Left face	Two 10/100/1000 Base T Ethernet ports One optional Direct Powering Port, 6 – 15VDC 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		
Typical Coverage:	70dB maximum, combination of passive and cable loss at highest operating frequency		
Performance:	Backbone up to 3.5Gbps, unit is 2Gbps with 1Gbps @ each Ethernet port		
Frequency Band:	PEBCx1x12P-xx: Broadband: 5 – 1002MHz, Ethernet via Coax: 1125 – 1675MHz		
	PEBCx2x12P-xx: Broadband: 5 – 1218MHz, Ethernet via Coax: 1325 – 1675MHz		
	PEBCx9x12P-xx: Broadband: 950 – 2100MHz, Ethernet via Coax: 400 – 900MHz		
Power Requirements:	2Watts, 6 to 15VDC, center conductor +		

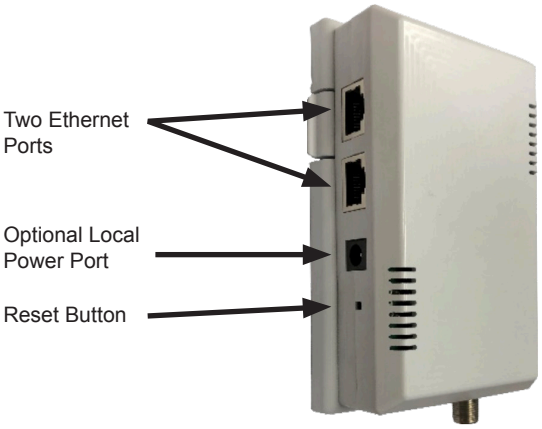
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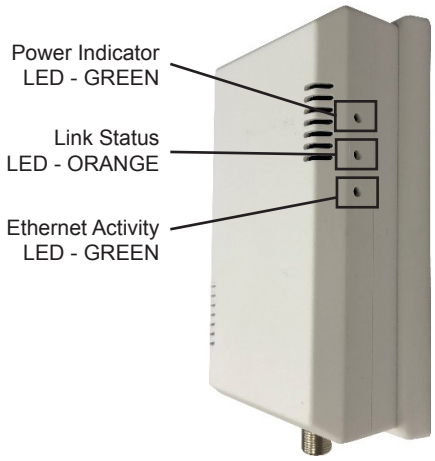
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Technical Data

PEBC mounted on wall bracket





Output F-port



Input F-port &
Mounting bracket affixed to utility box

Ordering Information

Part Number	Description
PEBCM1W12P-xx	Ethernet Bridge Wall-plate CATV 5 – 1002MHz, DATA 1125 – 1675MHz, 15VDC, Mesh/unmanaged topology Includes mounting bracket, Requires power source, xx=customer logo code (BL=blank)
PEBCM2W12P-xx	Ethernet Bridge Wall-plate CATV 5 – 1218MHz, DATA 1350 – 1675MHz, 15VDC, Mesh/unmanaged topology Includes mounting bracket, Requires power source, xx=customer logo code (BL=blank)
PEBCA1W12P-xx	Ethernet Bridge Wall-plate CATV 5 – 1002MHz, DATA 1125 – 1675MHz, 15VDC, Access/managed topology Includes mounting bracket, Requires power source, xx=customer logo code (BL=blank)
PEBCA2W12P-xx	Ethernet Bridge Wall-plate CATV 5 – 1218MHz, DATA 1125 – 1675MHz, 15VDC, Access/managed topology. Includes mounting bracket, Requires power source, xx=customer logo code (BL=blank)
IRISCMDL3G100	Ethernet Bridge Desktop DATA 400 – 900MHz, SAT 950 – 2300MHz, 12VDC, Access/managed topology. Local power only. Includes 12VDC power supply
IRISCMDH3G100	Ethernet Bridge Desktop CATV 5 – 1002MHz, DATA 1125 – 1675MHz, 12VDC, Access/managed topology. Local power only. Includes 12VDC power supply
PPC4PS73B1P	Entry Power Splitter/Inserter – 4-way, 5 – 1675MHz, 15VDC nominal Connects RF/EoC/DC up to three PEBC modems, short circuit protected
PPC7PS78B1P	Entry Power Splitter/Inserter – 6-way, 5 – 1675MHz, 15VDC nominal Connects RF/EoC/DC up to six PEBC modems, short circuit protected
PPC-PS15450	Entry Power Supply – Input: 120VAC, Output: 15VDC 750mA (6Watts), Powers up to 3 modems. 0 to 40C. Coax output
PPC-PS151500	Entry Power Supply – Input: 120VAC, Output: 15VDC. Provides local powers to PEBC modem if not centrally powered
PPC-PS152400	Entry Power Supply – Input: 120VAC, Output: 15VDC 2.4A (36Watts), Powers up to 16 modems. -20 to 60C. Optional local power supply, Needs 2.1/5.5mm adaptor and SNDC-PWR F to wire adaptor

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