ENABLE-IT ETHERNET EXTENSION EXPERTS™

Enable-IT 820P Pro Ethernet Extender Kit User Manual

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ABOUT THIS USER MANUAL

This product User Manual provides all the information needed to install and use the Enable-IT 820P Pro Ethernet Extender Kit. This User Manual is intended for use by technicians who are responsible for installing and setting up network equipment. Consequently, it is assumed that the installer has a basic working knowledge of LANs (Local Area Networks), PoE (Power-over-Ethernet) and voice telecom wiring.

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INTRODUCING THE 820P PRO ETHERNET EXTENDER KIT

Congratulations on purchasing the Enable-IT's 820P Pro 820P Pro IP PoE Camera Extender Kit — the simplest method to stretch your broadband solutions for in-building deployment in commercial office buildings, hotels, and multi-tenant residential units.

The 820P IP PoE Camera Extender Kit offers the Lowest Cost Solution in a simple design for rapid install using existing 4 pair Telco wiring.

This chapter contains introductory information about the 820P Pro Extended Ethernet Kit and how it can be used in your network. It covers the following topics:

- About the 820P Pro Extended Ethernet Kit
- Key Benefits
- Summary of Features
- Typical Applications

DO NOT INSERT ANY BLANK RJ-45 HEADS INTO ANY PORTS BEFORE CRIMPING – OTHERWISE YOU WILL RENDER THE PORT USELESS – BENT PINS

About the 820P Pro Extended Ethernet Kit

The 820P Pro IP PoE Camera Extender Kit solves the problem of high costs associated with stretching your backbone with traditional fiber or a series of hubs/repeaters.

In many office buildings, preferred network access is a dedicated Ethernet line, however Ethernet over twisted pair wiring has its distance limitations of just 328 ft. In order to drive Ethernet signal further, one would have to add repeaters to each segment of 328ft twisted pair cabling; this is often insufficient and too costly in multi-story buildings. Fortunately, the Enable-IT 820P Pro Series Extended Ethernet can push the reach of Ethernet to almost 3 times the typical Ethernet distance.
A simple design methodology would be to think of the 820P Pro extending a standard Ethernet line with power (PoE) up to 800ft (244m) and can also include 2 voice lines simultaneously.

To increase the durability and extended use of the product providing maximum future technology protection, 820P Pro Extended Ethernet Unit meets the challenge of modern switched LANs and allows you to add features and capacity as your network expands. The 820P Pro LRE kit includes a high powered PoE switch kit and the 820P Pro unit itself.

Unit Model	Wiring	Data Rate	Max. Distance
820P Pro	(4) pair CAT 2 up to CAT5e	15MB FD	800ft / (244m)

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Key Benefits

The following list identifies the 820P Pro IP PoE Camera Extender Kit key benefits.

- Dramatic cost reduction over any competing technology.
- The Enable-IT 820P Pro IP PoE Camera Extender Kit requires no firmware and no maintenance
- Broadband technology that delivers in-building Ethernet access over 4 pair of existing Category 2, up to Category 5e, 6 or 7, wiring up to 800ft (244m), whether spare or actively in use for analog or digital voice. This means no new wiring is required.
- Provides one scalable infrastructure for Internet access, dual POTS, VoIP, video, Power over Ethernet (PoE) and virtual private networking.
- Rapid installation with small box profile; no programming and no firmware to upgrade.
- Low profile box with PoE and Ethernet data all in a single RJ-45 Ethernet jack.

Summary Of Features

The Enable-IT 820P Pro IP PoE Camera Extender Kit has the following hardware features:

- Extended Ethernet and PoE over existing CAT2 up to CAT5e / CAT7 wiring
- Rapid Telco style installation – no programming required
- Supports digital VoD channels
- Drives Ethernet 15 Mbps full-duplex service delivery up to 800ft (244m)
- Network Equipment independence – Transparent to protocols/applications/MAC
- Maintains lifeline POTS
- 802.3af Standard & Cisco PoE (Power over Ethernet) support – active/pass through

Specifications:

PoE powered unit
Passive Device, No Firmware.

820P Pro Dimensions:

Height: 1" (25mm)
Depth: 3.25" (82.6mm)
Width: 4.4” (111.7mm)

Functionality:

Data Rates 15Mbps Full Duplex
Ethernet modes supported
10Mbps half-duplex
10Mbps full duplex
Max Distance 244m / 800ft
PoE compatible – active/pass through

Interfaces:

(1) RJ-45 10Mbs LAN input/output w PoE
(1) RJ-45 Transport Interlink port
(1) Optional 5v DC Power adapter input – not required for 820P Pro that is PoE Powered

Environment:

Operating temp: -49°F to 168°F (-45°to 76°C)
Humidity 5% to 90%, non-condensing

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Typical Use Applications

Enable-IT 820P Pro IP PoE Camera Extender Kit are usually installed onto telephone wiring infrastructures where extension of backbone services is required and expensive fiber options are prohibitive. The 820P Pro Extended Ethernet Kit allows a standard Ethernet segment to be deployed quickly over existing 4 pair Telco Copper Wiring in combination with existing POTS voice signals. That is 572ft beyond standard Category rated Ethernet. There are no moving parts and no firmware to upgrade, thus providing maintenance free operation.

Installers have the convenience of a 10Mbps LAN Ethernet unit for peace of mind connectivity, low power and no maintenance. Rapid installation allows for minimal interruption and the Broadband technology allows for investment protection up to 10 years with no firmware or replacement issues. Bandwidth can be scaled according to the Broadband Access Provider needs. The 820P Pro IP PoE Camera Extender Kit is a passive device so interruption of Internet service does not affect POTS services. Carriers and Access Providers can came and go, but the 820P Pro Extended Ethernet Unit technologies continue to provide lasting value such as the other utilities like Water, gas and electricity.

The Enable-IT 820P Pro IP PoE Camera Extender Kit is suited for the following key environments:

- Commercial Buildings (Multi-Tenant Units)
- Business Parks (Multi-Tenant Units)
- Apartments (Multi-Residential Units)
- Hotels (Multi-Hospitality Units)
- Business Suites (Multi-Hospitality Units)
- School Campuses (University, K-12)
- College Housing (Multi-Residential Units)
- Mining Operations – Quarries, Mine Shafts
- Nautical Infrastructure – Cruise Ships, Marinas, Dive Operations, Submarines
- Video Surveillance/Security
- WiFi Deployment – ISP's, RV Parks, Construction Sites
- Manufacturing – Foundries, Pharmaceutical, Aerospace, Automotive, Petroleum, Concrete Plants, etc.
- Retail POS – Department stores, Bars, restaurants, retail spaces
- Government – Naval ships, FEMA, Housing, USGS, National Parks, Forestry, Research Stations, NASA, Utilities, etc.
- Education – Outdoor Camps, College & University Campuses
- Healthcare – Hospitals, Elder Care, Outpatient Facilities
- Entertainment – Movie theaters, Home Entertainment, Fairs, Outdoor Venues

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INSTALLING THE 820P PRO ETHERNET EXTENDER KIT

The Enable-IT 820P Pro IP PoE Camera Extender Kit has a distance restriction of 800ft (244m) over existing Category 2, up to Category 5e, 6 or 7, wiring from device extension to device extension. Therefore quick, simple site surveys and installation planning are highly recommended.

This chapter describes the recommended installation process for the Enable-IT 820P Pro Ethernet Extender Kit. The following topics are covered:

- Site Plan – Installation Design Considerations
- Unpacking the Enable-IT 820P Pro IP PoE Camera Extender Kit
- Perform an Out Of The Box Test (OOTBT)
- Performing the On-Site Installation

Site Plan – Installation Design Considerations

- Total recommended distance of 1,100ft wiring from the 362 PoE Injector to the LAN device on the remote end. – 328ft from LAN to 362, 328ft from 362 to 820P Pro and 800ft from the 820P Pro to your end device is allowed. Max distance then is 1,456ft (443m)
- 4 Pair Telco wiring for the Enable-IT 820P Pro Extended Ethernet Unit.
- Wire pair used must be straight through, no taps/connection points.
- Twisted Pair cabling delivers the best performance over distance.
- Transparent to single line 802.3af PoE or 802.3at PoE Plus devices.

Option 1 – Single line PoE LAN Extension up to 800ft / 244m

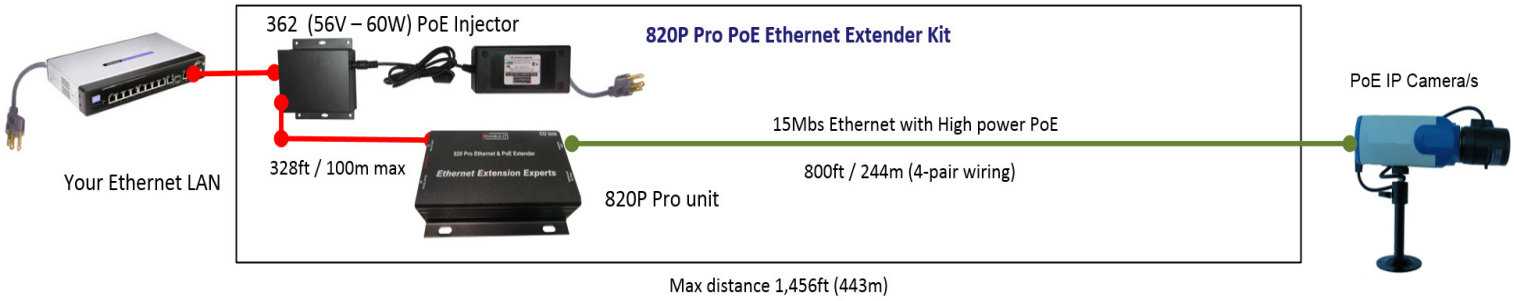
We highly recommend a quick test to ensure the working order of your 820P Pro kit.

❶ Apply power to the 362 PoE Injector kit. Cable the power cord to the 362 power brick adapter and use it's DIN DC female connector to attach to the DC jack on the back of the 362 Injector module.

❷ Attach a RJ-45 LAN patch cord from your local LAN source to the Data N1 port on the injector. Then run another LAN patch cord from the PoE&Data N2 port to the LAN & PoE IN port on the 820P Pro unit.

❸ Lastly, use a third LAN patch cord to attach your end PoE LAN device. The 820P Pro unit and your PoE LAN device should now be powered up and running.

Option 1



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Network Configuration

In some instances, your Ethernet switch, desktop computer, laptop, WiFi Access Point, or any LAN device not mentioned may need to be configured for 10Mbps auto-sensing as the 820P Pro is a 10Mbps Ethernet switch. It may be the case that your Ethernet switch is not passing data through the 820 Pro to your remote LAN device, therefore setting the LAN configuration on your device to 10Mbps will allow it to recognize the 820P Pro switch settings.

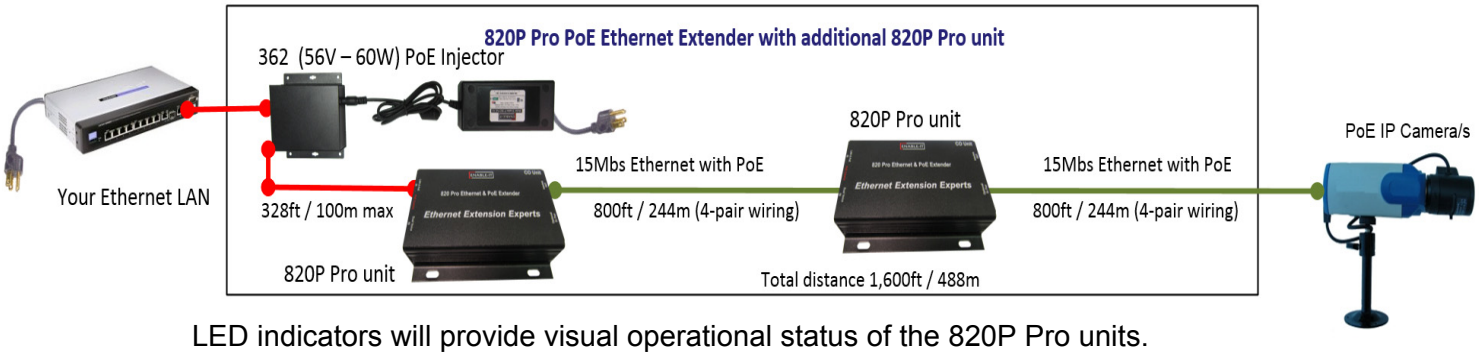
Option 2 – PoE LAN Extension up to 1,600ft using an additional 820P Pro device daisy-chained with the original.

❶ Apply power to the 362 PoE Injector kit. Cable the power cord to the 362 power brick adapter and use it's DIN DC female connector to attach to the DC jack on the back of the 362 Injector module.

❷ Attach a RJ-45 LAN patch cord from your local LAN source to the Data N1 port on the injector. Then run another LAN patch cord from the PoE&Data N2 port to the LAN & PoE IN port on the 820P Pro unit.

❸ Now you may daisy chain the 2nd 820P Pro unit by connecting a patch cord from the Interlink Out port on your 1st 820P to the LAN & PoE IN port on the 2nd 820P Pro unit. Next, attach a PoE LAN device to the Interlink Out port on the 2nd 820P Pro unit. The 820P Pro units as well as your remote PoE device should now be powered up and running.

Option 2

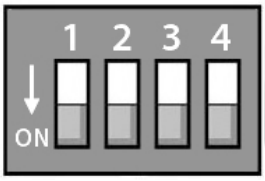


LED indicators will provide visual operational status of the 820P Pro units.

820P Pro LAN & PoE IN – Slow yellow LED flashing indicates LAN connectivity. Flickering yellow LED indicates LAN traffic.

820P Pro Interlink Out – Solid green LED indicates PoE power.

DIP Switch Settings: DIP switches 1 – 4:
Down (ON) - Enable PoE pass-through
UP (OFF) – Disable PoE pass-through



Default DIP Settings: DIP switches 1 – 4:
Down (ON) PoE Enabled for Data / PoE use

For installation at your desired location, keep in mind the following:
The backbone cable between the CO and your end device – RJ-45 Interlink port uses all 4-pairs of wiring for data and PoE (1, 2, 3 & 6 for data and 4, 5, 7 & 8 for PoE).

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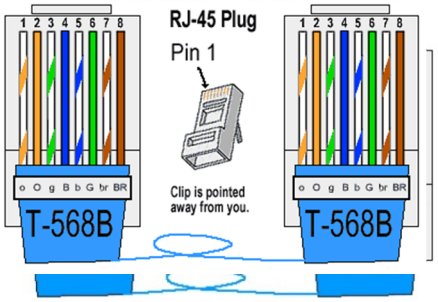

DO NOT INSERT ANY BLANK RJ-45 HEADS INTO ANY PORTS BEFORE CRIMPING – OTHERWISE YOU WILL RENDER THE PORT USELESS – BENT PINS

Attach RJ-45 Male heads to your existing wiring and follow the diagram below. For data only use pins 1,2,3 & 6. For Data and PoE use all pins. PoE uses pins 4,5,7 & 8

Unpacking The Enable-IT 820P Pro IP PoE Camera Extender Kit

Carefully remove the Enable-IT 820P Pro Kit's packing materials from the box. Verify that the items listed below are present. Make sure that the equipment supplied matches what you ordered. If any items are missing or damaged, please contact Enable-IT or your distributor for assistance.

- (1) Enable-IT 820P Pro IP PoE Camera Extender Unit
  (1) Enable-IT 362 PoE Injector kit 60W – 56V
- (2) LAN Ethernet Patch Cords
- (1) Enable-IT 820P Pro Quickstart Guide

Performing The On-Site Installation

After removing the Enable-IT 820P Pro IP PoE Camera Extender Kit from the box all that remains to install the unit on-site is to mount the unit, add RJ-45 Male heads to your wiring, connect the wiring, cross connect voice lines if needed and attach end device Ethernet patch cord cabling.

❶ Mounting the Enable-IT 820P Pro IP PoE Camera Extender Kit
The Enable-IT 820P Pro Extended Ethernet Units are designed for quick wall mounting. Choose a location to mount each of the Enable-IT 820's where the maximum distance does not exceed 800ft (244m) total between devices to be connected.

When wall-mounting the units it is recommended that you use the appropriate screw anchors for your mounting surface. If mounting on existing plywood use wood screws; if mounting onto drywall or sheetrock, use plastic drywall anchors to secure your installation.

❷ Attaching cabling and devices to the Enable-IT 820P Pro IP PoE Camera Extender.
Apply power to the 362 PoE Injector kit. Cable the power cord to the 362 power brick adapter and use it's DIN DC female connector to attach to the DC jack on the back of the 362 Injector module.
Attach a RJ-45 LAN patch cord from your local LAN source to the Data N1 port on the injector. Then run another LAN patch cord from the PoE&Data N2 port to the LAN & PoE IN port on the 820P Pro unit.

❸ Building the backbone between the 820P Pro unit and your remote LAN.
Crimp RJ-45 LAN heads onto your selected 4-pair wiring and insert into the Interlink port on the 820P Pro unit and the other end to your LAN.

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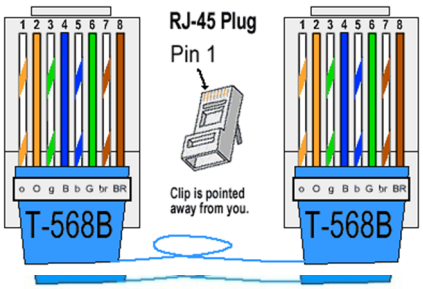
Follow the following diagram to create a T-568B standard connection between the 820P Pro and your end PoE LAN device.



This wire run becomes your Ethernet backbone between the 820P Pro unit and your end PoE LAN device. The wire pair must be straight through and not have any connector blocks in-between the units. If you have a connector block, you must remove the 4-pair and bridge together with Telco wire butt clips.

All the LED's should illuminate and the following LED indicators will provide visual operational status of the 820P Pro unit.

820P Pro LAN & PoE IN – Slow yellow LED flashing indicates LAN connectivity. Flickering yellow LED indicates LAN traffic.

820P Pro Interlink Out – Solid green LED indicates PoE power.

TECHNICAL SUPPORT

Enable-IT, Inc.'s Customer Care Team support is available directly to customers and distributors. All support requests are processed through the online support portal. This allows us to provide assigned support ticket numbers in order to bring closure to any technical issues.

Online Technical Services

The Enable-IT Support Portal is available 24/7 to open a ticket or check the status of one. Please use this support website as your first source for help as it contains an on-line knowledge base of articles, documentation, FAQ's and other problem-solving resources. This web-based support resource provides the quickest solution to the most common technical support issues.

World Wide Web Site

http://support.enableit.com

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Enable-IT, Inc. warrants to the original purchaser of the Product ("you" or the "End User") that, for the four (4) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. **Electrical damage is not an item that is covered under this warranty, extended warranties or Advanced Replacement Program (AREP).**
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Enable-IT Processing Facility
16600 Harbor Blvd, Suite I
Fountain Valley, CA 92708-1363

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Enable-IT warrants to the original purchaser of the Product ("you" or the "End User") that, for the four (4) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. This warranty does not apply to Products, which are resold as used, repaired or reconditioned, or consumables (such as batteries) supplied with the Product. **Electrical damage is not an item that is covered under this warranty or extended warranties.** Enable-IT does not make any warranty with respect to any third party product, software or accessory supplied with or used in connection with the Product and such third party products, software and accessories, if any, are provided "AS IS." Warranty claims related to such third party products, software and accessories must be made to the applicable third party manufacturer.

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