

# Ethernet Extension Experts



## Enable-IT 865 Rev D 56V PoE+ & Ethernet Extender User Manual



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## ABOUT THIS GUIDE

This guide provides all the information needed to install and use the Enable-IT 865 PoE & Extended Ethernet Kit. This guide 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) and voice telecom wiring.

*If the information in the release notes that are shipped with your product differs from the information in this guide, follow the instructions in the release notes.*

Most user guides and release notes are available in Adobe Acrobat

Reader Portable Document Format (PDF) or HTML on the Enable-IT World Wide Web site: [http://www.ethernetextender.com/manuals/865\\_Manual.pdf](http://www.ethernetextender.com/manuals/865_Manual.pdf)

# INTRODUCING THE 865 PoE & EXTENDED ETHERNET KIT

Congratulations on purchasing the Enable-IT 865 PoE & Extended Ethernet Kit — the simplest method to install your PoE IP Security camera or PoE Wireless Access Point using Ethernet or telephone wiring. This is the world's first solution to deliver Voice, Ethernet Data and Power over Ethernet (PoE) in a combined package that exceeds the IEEE distance limitations for all Ethernet equipment.

***WARNING: Output LAN ports 1 & 2 on the 865 CPE are PoE enabled and not for use with non-PoE equipment as it may damage any non-PoE equipment.***

This chapter contains introductory information about how it can be used in your network and covers the following topics:

- About the 865 PoE & Extended Ethernet Kit
- Key Benefits
- Summary of Features
- Typical Use Applications

## About the 865 PoE & Extended Ethernet Kit

The 865 PoE & Extended Ethernet Kit provides a complete all in one solution and lower cost alternative for installing a PoE device beyond IEEE Ethernet cabling distance limitations or for installing a remote LAN requiring no power at the remote end. Traditional methods require installation of costly fiber (that can't carry power) or a series of hubs/repeaters and the use of voice and PoE equipment combined.

The preferred network access for these PoE devices 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 865 Series Extended Ethernet can push the reach of Ethernet to more than (10.7) ten times the typical Ethernet distance. 2,500ft/762m distance if using the PoE power to drive up to a 24v PoE device or 3,500ft/1,067m distance if using the PoE to remotely power the remote 865 CPE device using LAN ports 2-4 output for Ethernet data.

The 865 enables the simple installation of a PoE device up to 2,500ft (762m) From your LAN and Power Source. – This is ideal for installing PoE IP Security cameras or PoE WiFi Access Points or for a standalone remote self powered LAN up to 3,500ft (1,067m).

The Enable-IT 865 Extended Ethernet has been tested to provide full duplex transport up to 100MB/s over CAT3, CAT5e and higher cabling.

Unit Model	Wiring	Min Data Rate	Max. Distance
865	CAT3, CAT5e or better	100Mbps FD*	3,500ft / 1,067m

\* Actual data rate will vary on the quality of the copper wire, twisted pair and environmental factors

## Key Benefits

The following list identifies the 865 PoE & Extended Ethernet Kit key benefits.

- Quad switched PoE+ enabled LAN RJ-45 10/100 Ethernet ports on each end for expansion without adding a hub or switch on each end.
- The Enable-IT 865 PoE & Extended Ethernet Kit requires No Power (CPE remote end), No Firmware, No Maintenance
- Broadband technology that delivers in-building PoE and Ethernet access over existing Category 3 , Category 5e wiring or better up to 3,500ft or 1,067m.
- Provides one scalable infrastructure for Internet access, dual POTS, VoIP, video, Power over Ethernet (PoE) and virtual private networking.
- Low profile box with voice line, Ethernet data and PoE all in a single RJ-45 Ethernet jack (Interlink port).

## Summary of Features

The Enable-865 PoE & Extended Ethernet Kit has the following hardware features:

- PoE and Extended Ethernet line over existing CAT 3 up to CAT5e / CAT6 wiring
- Uses RJ-45 Interlink port for transport (single voice, PoE and 100Mbps data)
- Rapid Telco style installation – no programming required
- Supports digital VoD channels and Maintains existing telephone (lifeline POTS)
- Drives Ethernet 100 Mbps full-duplex service delivery with PoE up to 3,500ft or 1,067m
- Network Equipment independence – Transparent to protocols/applications/MAC
- Cisco PoE single line injector support built in.
- Transparent to single line 802.3af PoE devices.

### Specifications:

Power Indicator  
100Mbps Link status/Activity  
VDSL2 Link Status/Activity

### Dimensions:

Height: 1.5" (38mm)  
Depth: 3.75" (95mm)  
Width: 5.75" (146mm)

### Interfaces

(1) 5v 2A DC Power Adapter 2.1mm  
(1) RJ-45 to Dual RJ-11 Dongle  
(4) RJ-45 100MB LAN Auto negotiate  
(1) RJ-45 Interlink Port

**Dongle pins:** DSL Center pair (2&3) = Ethernet Data & voice  
Outside pair (1&4) = Power over Ethernet (PoE+)

### Functionality:

Data Rates 100Mbps Full Duplex  
Full Duplex/Half Duplex status/Collisions  
Protocol independent

### 865 Interlink port pins:

Pins 1 & 2 – Voice line 1 and Data  
Pins 3 & 6 – Voice line 2  
Pins 4 & 5 – PoE positive power  
Pins 7 & 8 – PoE negative power

### Environment

Operating temp: -49°F to 168°F (-45°to 76°C)  
Storage temp: -49°F to 168°F (-45°to 76°C)  
Humidity 5% to 95%, non-condensing

## Multi Use Applications

Enable-IT 865 PoE & Extended Ethernet kit is a versatile multipurpose solution and you have the choice are only installed for the use of PoE equipment such as PoE IP Cameras and PoE WiFi Access Points. Non-PoE equipment may be damaged if used and the Enable-IT 865 kit should be used to bridge non-PoE equipment.

The 865 PoE & Extended Ethernet Kit allows a standard Ethernet segment injected with 56v PoE+ to be deployed quickly over existing 3 pair Telco Copper Wiring or CAT5e cabling up to 3,500ft / 1.067m to a remote unpowered location.

Installers have the convenience of a 100Mbps LAN Ethernet unit for peace of mind connectivity and no device maintenance. Rapid installation allows for minimal interruption and the Broadband technology allows for investment protection up to 10 -15 years with no firmware or replacement issues. Bandwidth can be scaled according to the Broadband Access Provider needs. The 865 PoE & Extended Ethernet Kit is a passive device so interruption of Internet service does not affect POTS services. Carriers and Access Providers can come and go, but the 865 PoE & Extended Ethernet Kit technologies continue to provide lasting value such as the other utilities like water, gas and electricity.

The Enable-IT 865 PoE & Extended Ethernet 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, subs**
- **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 campuses**
- **Healthcare – Hospitals, elder care, outpatient facilities**
- **Entertainment – Movie theaters, home entertainment, fairs, outdoor venues**



# INSTALLING THE 865 PoE & EXTENDED ETHERNET KIT

The Enable-IT 865 PoE & Extended Ethernet Kit have a distance restriction of 3,500ft or 1,067m over 3-pair of Category 3 up to 4-pair Category 5e / CAT6 wiring from your LAN and power source to the remote PoE device. Therefore quick, simple site surveys and installation planning are highly recommended – This is ideal for installing PoE IP Security cameras or PoE WiFi Access Points.

This chapter describes the recommended installation process for the Enable-IT 865 PoE+ & Extended Ethernet Kit. It covers the following topics:

- Site Plan – Installation Design Considerations
- Unpacking the Enable-IT 865 PoE & Extended Ethernet Kit
- Perform an out of the box Test
- Performing the On-Site Installation

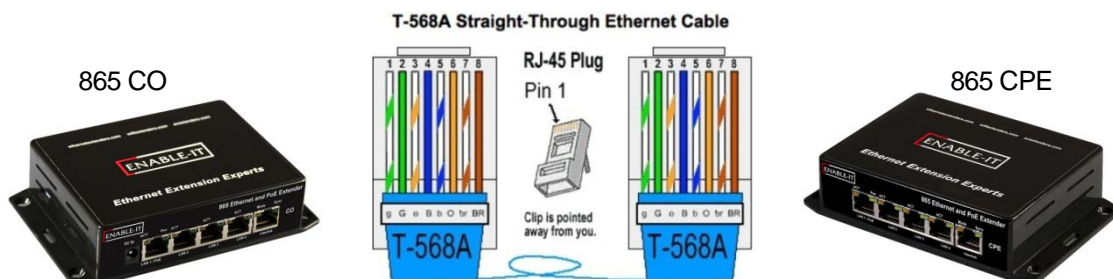
## Site Plan - Installation Design Considerations

The planning process should involve a site walkthrough and discovery survey. Electrical Cable measurement tools are the most reliable method to determine the longest run of hidden wiring. Estimate the best locations to position the Broadband Concentrators to adequately reach desired connectivity on each floor. Document your findings to use in designing a network topology to support the Ethernet Switches and backbone connectivity. Key points to remember in the Site Survey.

- Total distance limitation of 3,500ft / 1.0672m from end to end. - 2,500ft/762m distance if using the PoE power for a PoE device.
- 3 Pair CAT-3 wiring or 4-pair Cat5e .30 Gage or better cabling is required for the 865 Interlink transmission.
- Cisco PoE single line injector support built in. Not compatible with any PoE switches as the PoE switches are not smart enough to understand Extender Ethernet timing mechanisms and fail to set correct output voltage and will subsequently disable the PoE switch port.
- Transparent to single line 802.3af PoE injectors and devices.

For CAT3 wiring (3-pair/6 wires) you will need to crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins(1,2,4,5,7 & 8) straight through. This will deliver 1 Voice line, Ethernet Data and PoE.

For CAT5e or better wiring (4-pair/8 wires) you will need to crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins(1,2,3,4,5,6,7 & 8) straight through. This will deliver Dual Voice lines, Ethernet Data and PoE. This can be either T-568A or T-568B spec.





## Unpacking the Enable-IT 865 PoE+ & Extended Ethernet Kit

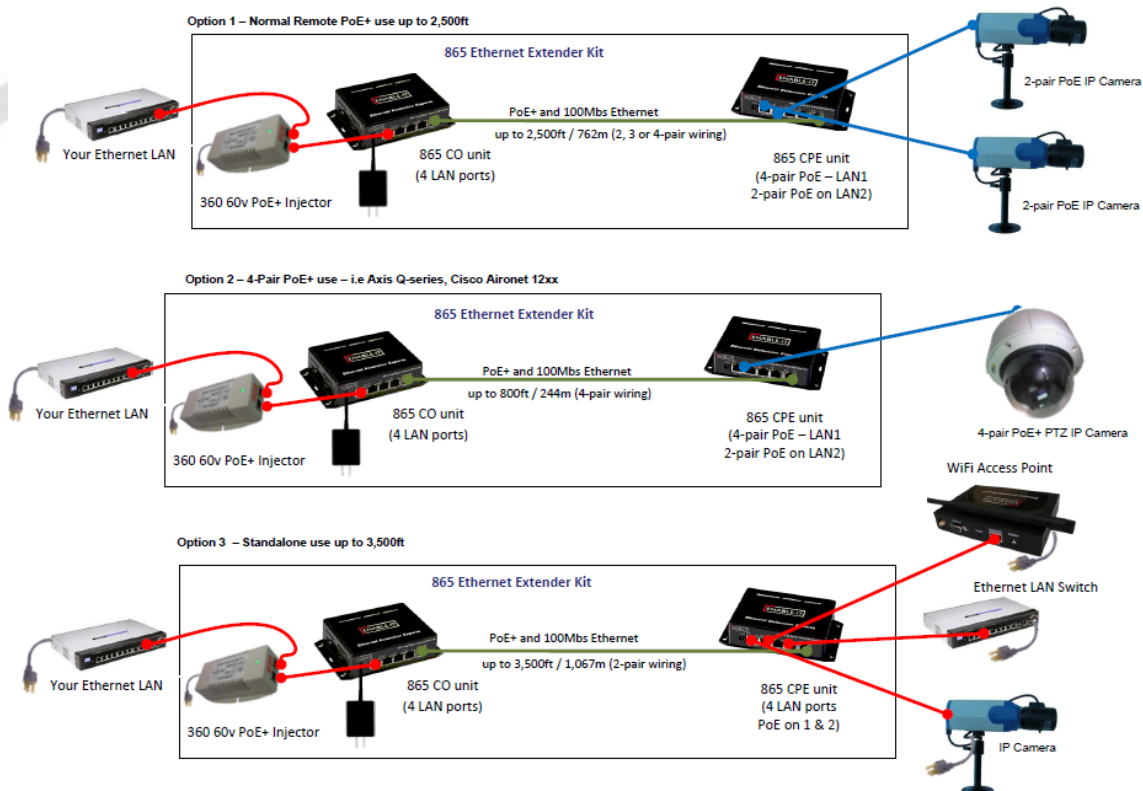
Carefully remove the Enable-IT 865 PoE+ & Extended Ethernet Kit all packing materials from the box. Verify that the items listed below are present. Make sure that the equipment supplied matches what you ordered. If any items are missing or damaged, please contact Enable-IT or your distributor for assistance.

- (2) The Enable-IT 865 PoE & Extended Ethernet Units (CO & CPE)
  - 5v AC/DC Power adapter for 865 CO
  - 10' LAN patch cables
  - RJ-45 to Dual RJ-11 DSL Filter/Adapter (for use on active phone system)
  - Enable-IT 360 60W -56v High Power PoE Injector
- (1) Enable-IT 865 PoE+ & Extended Ethernet Kit User Manual (this manual)
- (1) Enable-IT 360 PoE+ Injector User Manual

### Perform an out of the box Test

**We highly recommend a quick test to ensure the working order of your 865 units. To do this, please use one of the Ethernet patch cords provided and attach to the 865 Interlink port of each 865 unit. Using the 5v power adapter, power up the 865 CO Unit and attach the 360 PoE Injector (P+Data Out port) to the 865 CO LAN1/PoE port. After a few seconds you should see a solid Green Interlink Sync LED on each unit to confirm a link is established. The Green Interlink Sync LED will pulse rapidly as it detects traffic. This confirms basic proper operation of the units. Next for a more detailed test and to confirm your PoE LAN Equipment works with the 865, connect your Ethernet LAN and PoE remote device to the 865 LAN ports and test connectivity.**

***WARNING: Output LAN ports 1 & 2 on the 865 CPE are PoE enabled and not for use with non-PoE equipment as it may damage any non-PoE equipment.***



LED indicators will provide visual operational status of the 865 units.

- Sync** - Slow to fast flicker on power up – indicates negotiation of a link.  
Solid Green LED indicates link established and rapid pulse is traffic.
- Pwr** - Solid Green LED indicates that unit is receiving 5v power.
- Mode** - Solid Yellow LED on CPE unit only – No LED lit on CO
- ACT** - Yellow LEDs – Lit solid indicates the presence of local LAN  
– Blinking indicates the presence of local LAN traffic

**Next for a more detailed test and to confirm your PoE Equipment works with the 865, connect your PoE device to any of the 865 CPE LAN/PoE ports and your LAN to the 360 PoE Injector Data IN port. For use with a Cisco PoE device such as Aironet WiFi AP – Use the provided Cisco PoE patch cord or build one using it as a guide.**

### Performing the On-Site Installation

After removing the Enable-IT 865 PoE+ & Extended Ethernet Kit from the box and performing the out of the box testing all that remains to install the unit on-site is to mount the unit, build the interconnect wiring, add voice lines if needed and attach the LAN device cabling with the provided Ethernet Patch cords.

#### 1 Mounting the Enable-IT 865 PoE+ & Extended Ethernet Units

The Enable-IT 865 PoE+ & Extended Ethernet Kit is designed for quick wall mounting. Choose a location to mount each of the Enable-IT 865's where the maximum distance does not exceed 3,500ft or 1,067m total between devices to be connected. When mounting the Enable-IT 865 PoE+ & Extended Ethernet Kit it is recommended that you use the appropriate anchors for your mounting surface. If mounting on plywood use wood screws; if mounting onto drywall or sheetrock, use plastic drywall anchors or Velcro can also be used as the units are very lightweight.

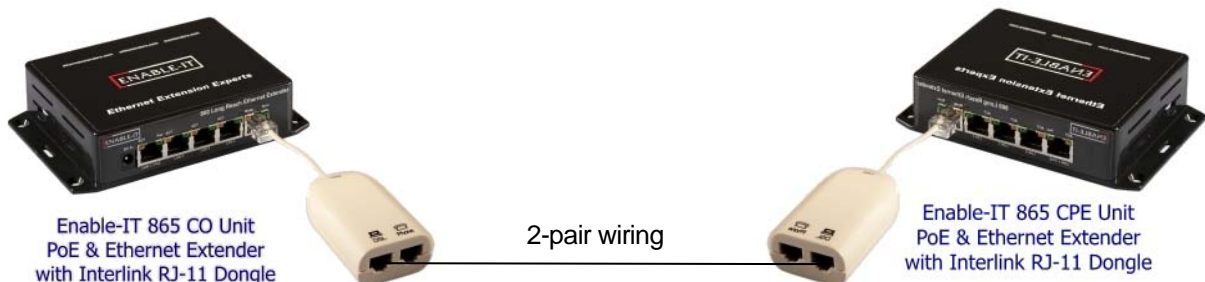
#### 2 Building the 865 Interlink wiring

The most important aspect of the install is the correct wiring of the Interlink cabling. For CAT3 wiring (3-pair/6 wires) you will need to crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins(1,2,4,5,7 & 8) straight through. This will deliver 1 Voice line, Ethernet Data and PoE+. Insert into the Interlink Port on each 865 unit.

For CAT5e or better wiring (4-pair/8 wires) you will need to crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins(1,2,3,4,5,6,7 & 8) straight through. This will deliver Dual Voice lines, Ethernet Data and PoE. Insert into the Interlink Port on each 865 unit. This can be either T-568A or T-568B spec.

You can also use the RJ45 to RJ11 dongles for use over (2-pair/4 wires).

**Dongle pins:** DSL Center pair (2&3) = Ethernet Data & voice  
Outside pair (1&4) = Power over Ethernet (PoE+)



- 3 Attaching cabling and devices to the Enable-IT 865 Extended Ethernet Kit. Attach your remote PoE device to the 865 CPE unit LAN/PoE ports with Ethernet patch cord provided. Attach your local LAN to the 360 PoE injector Data IN port. Attach the power adapter to the 865 CO unit. Attach the 360 PoE+ injector to the 865 CO LAN1/PoE port with Ethernet patch cord provided. Apply power to the 360 PoE injector with the country power cord provided.
- If you plan on using voice service as well, insert your dial tone voice line to the 865 CO unit dangle RJ-11 phone port and telephone handset to the 865 CPE unit dangle RJ-11 phone port. Your equipment should now be powered up and functioning properly.

The LED indicators will provide visual operational status of the 865 units.

- Sync** - Slow to fast flicker on power up – indicates negotiation of a link.  
 Solid Green LED indicates link established and rapid pulse is traffic.
- Pwr** - Solid Green LED indicates that unit is receiving 5v power.
- Mode** - Solid Yellow LED on CPE unit only – No LED lit on CO
- ACT** - Yellow LEDs – Lit solid indicates the presence of local LAN  
 – Blinking indicates the presence of local LAN traffic

- 4 For troubleshooting, first examine the backbone wiring pair and make sure you have solid connections. The Interlink Sync LED will be lit on each 865 unit to show proper connection and pairing. If the Interlink Sync LED Link is flashing – (Not pulsing)
- 1) Make sure your wiring is straight through and not connected to any Telco punch down blocks or a few as possible – they add interference. If your wiring is spliced, use Telco butt clips or gel filled caps to bridge wire into a solid connection. A flashing Interlink Sync LED indicated the units are trying to connect to each other and are looking to synchronize frequencies.
  - 2) Check for a firm connection of the RJ-45 connections in each 865 unit, check any splice points in the Interlink wiring and that the 5v power adapter is applied to the 865 CO and the 360 PoE+ injector is powered up.
  - 3) You can always perform another out of the box test to prove out the equipment and then focus on your interlink wiring.

### Performance Settings

A DIP Switch is provided on the left side of each unit for setting line performance attributes.

If the Interlink cabling is less than 1,500ft / 1,067m - Set DIP Switch 3 up to the OFF position. This optimizes faster symmetrical throughput.

If the Interlink cabling is over 1,500ft 1,067m - the DIP switch 3 must be down (set to ON) position for the unit to work properly.



Default DIP settings  
 865 CPE – All down set in the ON position  
 865 CO – DIP position 1 up (OFF)  
 DIPs 2-4 down (ON)

## Technical Support

Enable-IT OEM Technical 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. No password or user account is necessary. 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.

<http://support.enableit.com>

## Returning Products for Warranty Repair

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 or extended warranties.**

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Please ship Authorized RMAs to:

Enable-IT Processing Facility  
16600 Harbor Blvd, Ste I  
Fountain Valley, CA 92708

### Returning Products for Refund

45-Day refund applies to single kit Ethernet Extenders only and is subject to a 15% Restocking Fee. Shipments without valid / authorized RMA number or sent to our corporate Las Vegas Address can be refused and or billed for additional shipping.

## ENABLE-IT LIMITED WARRANTY

Enable-IT warrants the Enable-IT 865 PoE & Extended Ethernet Kit solely pursuant to the following terms and conditions.

### 1. PRODUCT WARRANTY

a. Express Warranty 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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