

# Ethernet Extension Experts



## Enable-IT 860 Rev E Ethernet Extender Kit User Manual



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# CONTENTS

<b>ABOUT THIS GUIDE</b>	<b>4</b>
<b>1 INTRODUCING THE ENABLE-IT 860 ETHERNET EXTENDER KIT</b>	<b>5</b>
About the 860 Rev E Ethernet Extender Kit	5
Key Benefits	6
Summary of Features	6
Typical Use Applications	7
<b>2 INSTALLING THE ENABLE-IT 860 ETHERNET EXTENDER UNITS</b>	<b>8</b>
Site Plan – Installation Design Considerations	8
Unpacking the 860 Ethernet Extender Kit	9
Perform an out of the box Test	9
Performing the On-Site Installation	9
Mounting the 860 Ethernet Extender Kit	10
Building the 860 Interlink wiring	10
Attaching cabling and devices	10
Troubleshooting & Performance Settings (DIP switch)	11
<b>3 TECHNICAL SUPPORT</b>	
Online Technical Services	11
World Wide Web Site	11
Returning Products for Repair	11
<b>4 ENABLE-IT INC. LIMITED WARRANTY</b>	<b>12</b>
<b>5 CONTACT US</b>	<b>14</b>

## ABOUT THIS GUIDE

This guide provides all the information needed to install and use the Enable-IT 860 Ethernet Extender 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/860 Manual.pdf](http://www.ethernetextender.com/manuals/860%20Manual.pdf)

# INTRODUCING THE 860 ETHERNET EXTENDER KIT

Congratulations on purchasing the Enable-IT's 860 Ethernet 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 860 Extended Ethernet Unit offers the Lowest Cost Solution in a simple design for rapid install using existing 1 pair Telco wiring.

This chapter contains introductory information about The 860 Extended Ethernet Unit and how it can be used in your network. It covers the following topics:

- About the 860 Extended Ethernet Unit
- Key Benefits
- Summary of Features
- Typical Applications

## About the 860 Extended Ethernet Kit

The 860 Extended Ethernet 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 860 Series Extended Ethernet can push the reach of Ethernet to more than (20) twenty times the typical Ethernet distance over a 1-pair Telco wiring infrastructure or better.

A simple design methodology would be to think of the 860 extending a standard Ethernet line up to 6,000 (1,828m) with a (4) Port 10/100 Ethernet switch and can also include dual voice lines simultaneously.

To increase the durability and extended use of the product providing maximum future technology protection, 860 Extended Ethernet Unit meets the challenge of modern switched LANs and allows you to add features and capacity as your network expands. The Enable-IT 860 Extended Ethernet has been tested to provide full duplex transport up to 90MB/s over CAT2, and up to 100MB/s over CAT5e cabling.

Unit Model	Wiring	LAN Data Rate	Max. Distance
860	(1) pair CAT 2 up to CAT5e	100Mbps FD	6,000ft / 1,828m

Up to 700ft (200m) - 100Mbps  
 700ft (200m) to 1,350ft (400m) - 90Mbps  
 1,350ft (400m) to 1,970ft (600m) - 70Mbps  
 1,970ft (600m) to 2,625ft (800m) - 52Mbps  
 2,625ft (800m) to 3,280ft (1000m) - 42Mbps  
 3,300ft (1005m) to 6,000(1,828m) - 30Mbps

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

## Key Benefits

The following list identifies the 860 Extended Ethernet Unit key benefits.

- Dramatic cost reduction over any competing technology and includes a (4) Port 10/100 LAN switch on each end.
- Broadband technology that delivers in-building Ethernet access over 1 pair of existing Category 2 up to Category 5e wiring up to 6,000', 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, POTS, VoIP, video, and virtual private networking.
- Rapid installation with small box profile, no programming and no firmware to upgrade.
- Low profile box with dual POTS line and Ethernet data all in a single RJ-45 Ethernet jack (Interlink port). RJ-45 to RJ-11 dongles provided for telephone use
- Quad switched LAN RJ-45 10/100 Ethernet ports for expansion without adding a hub or switch on each end.

## Summary of Features

The Enable-860 Extended Ethernet Kit has the following hardware features:

- Extended Ethernet line over existing CAT 2 up to CAT5e / CAT6 wiring
- Uses RJ-45 Interlink port for transport (Dual voice, 100Mbps data and PoE)
- 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 quad LAN switch, dual voice up to 6,000ft or 1,829m - can also transport PoE up to 1,500ft natively.
- Network Equipment independence – Transparent to protocols/applications/MAC

### Specifications:

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

### Functionality:

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

### Dimensions:

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

### 860 Interlink port pins:

Pins 1 & 2 – Voice line 1 and Data  
Pins 3 & 6 – Voice line 2(optional)  
Pins 4 & 5 – optional support for PoE  
Pins 7 & 8 – optional support for PoE

### 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

### Interfaces

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

**Dongle pins:** DSL center pair (2&3) = Data  
Phone –center pair (2&3) = Voice 1    Outside pair (1&4) = Voice 2

## Typical Use Applications

Enable-IT 860 Extended Ethernet Units are usually installed into telephone wiring infrastructures where extension of backbone services is required and expensive fiber options are prohibitive. The 860 Extended Ethernet Units allow a standard Ethernet segment to be deployed quickly over existing 1 pair Telco Copper Wiring in combination with existing POTS voice signals. The 860 Interlink port (RJ-45 interface) carries this 1-pair signaling over the RJ-45 pins (1 & 2) - used for transport for both voice and data. If you use more than 1-pair of wiring such as a CAT5 segment, the RJ-45 pins (3 & 4) are used for Voice line 2 and the remaining pins 4,5,7 & 8 can transport native 802.3af PoE or are unused. Quad LAN RJ-45 10/100 autosensing ports allow the use of LAN devices without adding an Ethernet hub or switch to either end.

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 860 Extended Ethernet Unit is a passive device so interruption of Internet service does not affect POTS services. Carriers and Access Providers can come and go, but the 860 Extended Ethernet Unit technologies continue to provide lasting value such as the other utilities like Water, gas and electricity.

The Enable-860 Extended Ethernet Unit 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 860 EXTENDED ETHERNET KIT

The Enable-IT 860 Extended Ethernet Units have a distance restriction of 6,000ft or 1,828m over 1-pair of Category 2 up to Category 5e / CAT6 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 860 Extended Ethernet Unit. It covers the following topics:

- Site Plan – Installation Design Considerations
- Unpacking the Enable-IT 860 Extended Ethernet Kits
- 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.

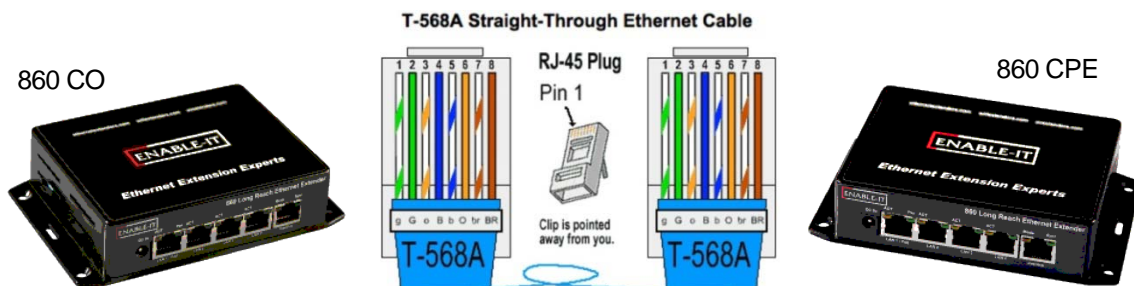
- Total distance limitation of 6,000ft or 1,829m from end to end.
- 1 Pair CAT-2 wiring or 4-pair Cat5e .30 Gage or better cabling is required for the 860 Interlink transmission.

For the Interlink wiring you can use either RJ-45 or RJ-11 connectors. Crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins (1 & 2) straight through. This will deliver 1 Voice line, Ethernet Data. If you desire to use the second voice line, you can also use pins (3 & 6) on each end straight through.

The 860 Interlink port (RJ-45 interface) carries this 1-pair signaling over the RJ-45 pins (1 & 2) - used for transport for both voice and data. If you use more than 1-pair of wiring such as a CAT5 segment, the RJ-45 pins (3 & 4) are used for Voice line 2 and the remaining pins 4,5,7 & 8 are can transport native PoE or are unused. The RJ-45 to RJ-11 dongles do not transport PoE currently but can be easily added if needed.

**Dongle pins:** DSL port center pair (2&3) = Data

Phone port –center pair (2&3) = Voice 1 Outside pair (1&4) = Voice 2



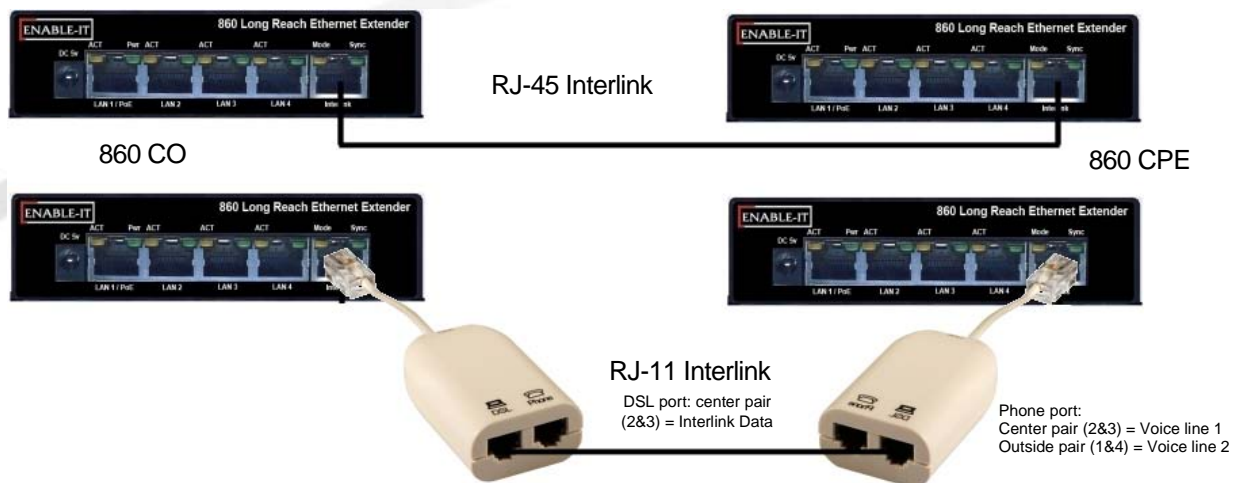
## Unpacking the Enable-IT 860 Extended Ethernet Kit

Carefully remove the Enable-IT 860 Extended Ethernet Kits 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 860 Extended Ethernet Units (CO & CPE)
  - 5v AC/DC Power adapter
  - 10' Black Ethernet LAN patch cables
  - RJ-45 to Dual RJ-11 DSL Filter/Adapter (for use on active phone system)
- (1) Enable-IT 860 Extended Ethernet Kit User Manual (this manual)

## Perform an out of the box Test

**We highly recommend a quick test to ensure the working order of you 860 units. To do this, please use one of the Ethernet patch cords provided and attach to the 860 Interlink port of each 860 unit. Power up both 860 units. The Green Sync LEDs will start flickering slowly and then fast as the units talk to each other. After a few seconds you should see a solid Green Interlink Sync LED on each unit to confirm a link is established. This confirms basic proper operation of the units. Next for a more detailed test and to confirm your LAN Equipment works with the 860, connect your Ethernet LAN and remote device to the 860 LAN ports and test connectivity. The Green Interlink Sync LED will pulse rapidly as it detects traffic.**



LED indicators will provide visual operational status of the 860 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 both units are 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

## Performing the On-Site Installation

After removing the Enable-IT 860 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 860 Extended Ethernet Units

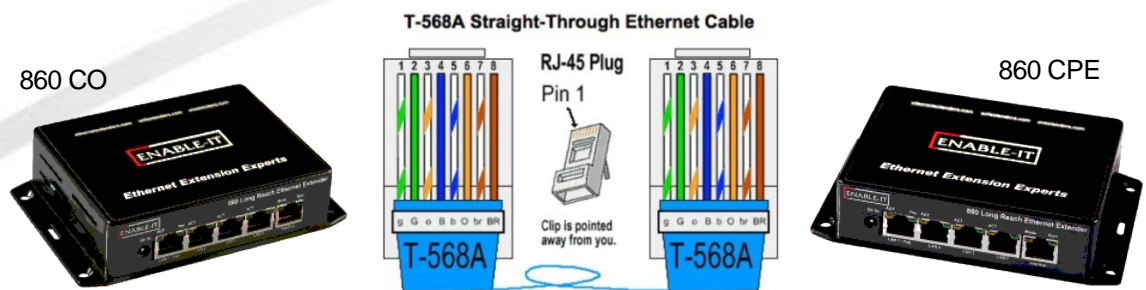
The Enable-IT 860 Extended Ethernet Kits are designed for quick wall mounting. Choose a location to mount each of the Enable-IT 860's where the maximum distance does not exceed 6,000ft or 1,829m total between devices to be connected. When wall-mounting the Enable-IT 860 Extended Ethernet Kit it is recommended 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.

**2** Building the 860 Interlink wiring

The most important aspect of the install is the correct wiring of the Interlink cabling. You have the option of using RJ-45 or RJ-21 blank male heads for this cabling. The RJ-45 to RJ-11 dongle is provided for your convenience in this choice.

For all wiring you will need to crimp a either a RJ-11 or RJ-45 Male Head to each end of the contiguous wire run and using the following pins (1 & 2) straight through. This will deliver 1 Voice line, Ethernet Data. If you desire to use the second voice line, you can also use pins (3 & 6) on each end straight through. Insert the completed RJ-45 ends into the 860 Interlink port on each 860 unit or the RJ-11 ends into the RJ-45 to RJ-11 dongle provided and insert the RJ-45 end of the dongle into the 860 Interlink port on each 860 unit.

The 860 Interlink port (RJ-45 interface) carries this 1-pair signaling over the RJ-45 pins (1 & 2) - used for transport for both voice and data. If you use more than 1-pair of wiring such as a CAT5 segment, the RJ-45 pins (3 & 4) are used for Voice line 2 and the remaining pins 4,5,7 & 8 are can transport native PoE or are unused.



**3** Attaching cabling and devices to the Enable-IT 860 Extended Ethernet Kit.

Attach your remote LAN device to the 860 CPE unit LAN ports with Ethernet patch cord provided. Attach your local LAN to the 860 CO LAN ports with Ethernet patch cord provided. Attach the power adapters to both 860 units.

If you plan on using voice service as well, insert your dial tone voice line/lines into the RJ-45 to RJ-11 dongle and then attach to the 860 CO unit – RJ-45 Interlink port and telephone handset into the RJ-45 to RJ-11 dongle and then attach to the 860 CPE unit RJ-45 Interlink port. Your equipment should now be powered up and functioning.

LED indicators will provide visual operational status of the 860 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 both units are 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 solid Green with rapid pulsing on each 860 unit to show proper connection and pairing. If the Interlink Sync LED Link is flashing slow to fast and never goes solid .... Then follow the steps below:
  - 1) Make sure your wiring is straight through and not connected to any Telco punch down block; If so remove from the block and use Telco butt clips to bridge wire.
  - 2) Check for a firm connection of the RJ-45 connections in each 860 unit, power is applied to the 860 CO & CPE units.
  - 3) You can easily isolate any issue by performing an out of the box test confirm either the 860 Kit or your wiring. It is possible an outside interference has been introduced into your 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 3,500ft / 1,067m - Set DIP Switch 3 up to the OFF position. This optimizes faster symmetrical throughput.

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



Default DIP settings  
 860 CPE – All down set in the ON position  
 860 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>

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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 or extended warranties.**

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Please ship Authorized RMAs to:

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

#### Returning Products for Refund

45-Day refund applies to single kit Ethernet Extenders only and is subject to a 25% 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 860 Extended Ethernet Kits 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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