

Ethernet Extension Experts



Enable-IT 865 Series PoE & Extended Ethernet 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

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 WiFi Access Point using Ethernet or telephone wiring. This is the world's first solution to deliver Voice, Data and PoE in a combined package that exceeds the IEEE distance limitations for all Ethernet equipment.

WARNING: DO NOT use LAN1/PoE port on the CPE end for non-PoE equipment as it may damage any non-PoE equipment. Use the LAN 2 port on the CPE for 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 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 (7.7) seven times the typical Ethernet distance. 1,500ft/458m distance if using the PoE power to drive up to a 24v PoE device or 2,500ft/762m distance if using the PoE power standalone for the remote 865 CPE device only and LAN2 output for data/voice.

The 865 enables the simple installation of a PoE device up to 1,500ft (458m) 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 2,500ft (762m).

WARNING: DO NOT use LAN1/PoE port on the CPE end for non-PoE equipment as it may damage any non-PoE equipment. Use the LAN 2 port on the CPE for non-PoE equipment.

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*	2,500ft / 762m

* 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.

- Dramatic cost reduction over any competing technology.
- 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 2,500ft or 762m.
- 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 dual POTS line, PoE and Ethernet data all in a single RJ-45 Ethernet jack.

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 (Dual voice, PoE and 100Mbps data)
- Rapid Telco style installation – no programming required
- Supports digital VoD channels
- Drives Ethernet 100 Mbps full-duplex service delivery with PoE up to 2,500ft or 762m
- Network Equipment independence – Transparent to protocols/applications/MAC
- Maintains lifeline POTS
- 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 DC power Adapter 865 CO unit
(1) RJ-11 Dual telephone
(3) RJ-45 100MB LAN Auto negotiate

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: -20° to 70°C/-4° - 160°F
Storage temp: -25° to 70°C/-13° - 160°F
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 48v PoE to be deployed quickly over existing 3 pair Telco Copper Wiring or Cat5e cabling up to 2,500ft / 762m 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-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 2,500ft or 762m 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

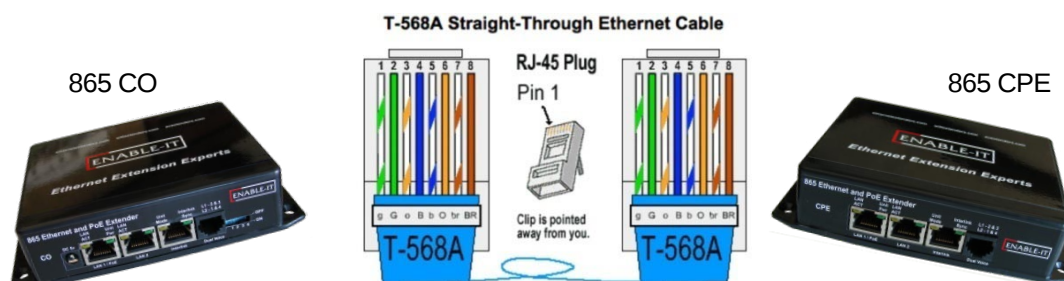
Site Plan - Installation Design Considerations

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 2,500ft / 762m from end to end. - 1,500ft/458m 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/6wires) 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/8wires) 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

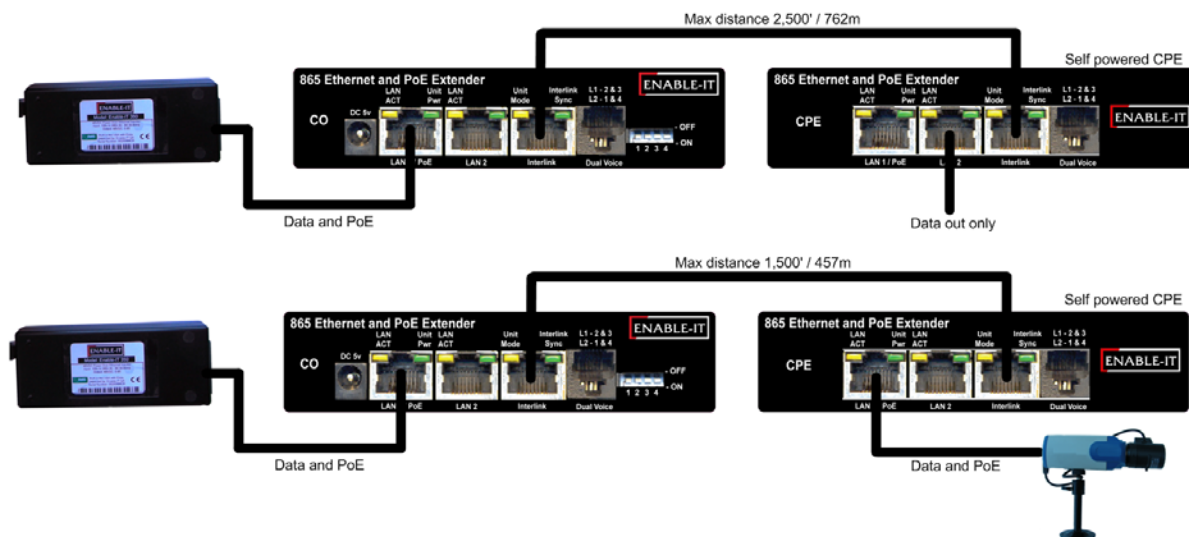
Carefully remove the Enable-IT 865 PoE & Extended Ethernet Kit all packing materials from the box. Verify that the items listed below are present. Make sure that the equipment supplied matches what you ordered. If any items are missing or damaged, please contact Enable-IT or your distributor for assistance.

- (2) The Enable-IT 865 PoE & Extended Ethernet Units (CO & CPE)
 - o 5v AC/DC Power adapter for 865 CO
 - o LAN patch cables
 - o Enable-IT 350 48v PoE Injector for 865 CO
- (1) Enable-IT 865 PoE & Extended Ethernet Kit User Manual (this manual)
- (1) Enable-IT 350 PoE Injector User Manual

Perform an out of the box Test

We highly recommend a quick test to ensure the working order of you 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 350 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. This confirms basic proper operation of the units.

WARNING: DO NOT use LAN1/PoE port on the CPE end for non-PoE equipment as it may damage any non-PoE equipment. Use the LAN 2 port on the CPE for non-PoE equipment.



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

- Interlink Sync** - Solid Green LED indicates that the 865 units see each other.
- Unit Pwr** - Solid Green LED indicates that both units are receiving 5v power.
- Unit Mode** - Solid Yellow LED on CPE unit only – No LED lit on CO
- LAN1 ACT** - Yellow LED – 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 the 865 CPE LAN1/PoE port and your LAN to the 350 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.

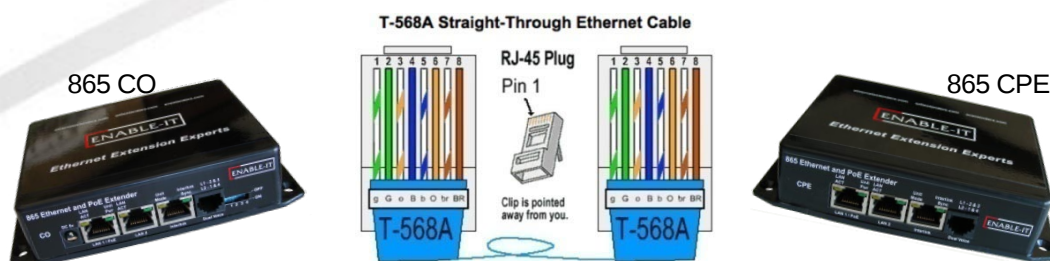
1 Mounting the Enable-IT 865 PoE & Extended Ethernet Units

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 2,500ft or 762m 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/6wires) 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/8wires) 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.



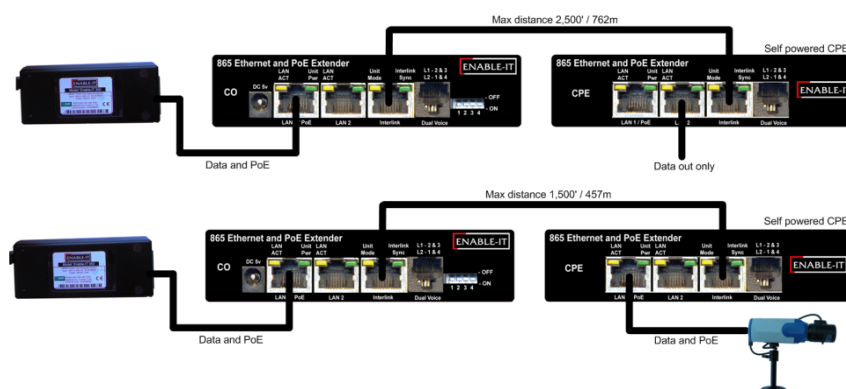
3 Attaching cabling and devices to the Enable-IT 865 Extended Ethernet Kit.

Attach your remote PoE device to the 865 CPE unit LAN1/PoE port with Ethernet patch cord provided. Attach your local LAN to the 350 PoE injector Data IN port. Attach the power adapter to the 865 CO unit. Attach the 350 PoE injector to the 865 CO LAN1/PoE port with Ethernet patch cord provided. Apply power to the 350 PoE injector with the country power cord provided.

If you plan on using voice service as well, insert your dial tone voice line/lines to the 865 CO unit (Dual Voice – IN) RJ-11port and telephone handset to the 865 CPE unit Dual Voice – OUT) RJ-11 port. Your equipment should now be powered up and functioning properly. The LED indicators will provide visual operational status of the 865 units.

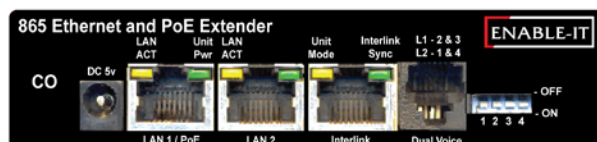
- Interlink Sync** - Solid Green LED indicates that the 865 units see each other.
- Unit Pwr** - Solid Green LED indicates that both units are receiving 5v power.
- Unit Mode** - Solid Yellow LED on CPE unit only – No LED lit on CO
- LAN1 ACT** - Yellow LED – Lit solid indicates the presence of local 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 –
 - 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 350 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.

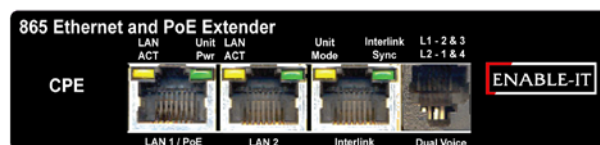


- 4) If your installation has performance issues not resolved by the first two steps, you can change the 865 CO DIP Switches (2 & 4) to the OFF position. See the following chart for DIP switch settings.

865 CO DIP Switch settings



865 CPE – No DIP Switch



	DIP-1	DIP-2	DIP-3	DIP-4
	Mode	Channel	Rate Limit	Signal Noise Ratio
ON (Default)	CO	Fast	Full Duplex	6dB
OFF		Interleave	50/20 Mbps	9dB

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://www.ethernetextender.com/support/support_overview.php

Returning Products for Warranty Repair

Enable-IT, Inc. warrants to the original purchaser of the Product ("you" or the "End User") that, for the three (3) 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.**

If authorized by Enable-IT to return a Product which does not conform to the warranty set forth above, the End User must: (1) obtain a return materials authorization (RMA) number from Enable-IT by contacting the Customer Service Dept. at 888-309-0910 between the hours of 8:00 a.m. and 5:00 p.m. PST and otherwise fully comply with Enable-IT's then-current RMA policy; (2) return the Product to Enable-IT, Inc. in its original packaging freight pre-paid; and (3) provide to Enable-IT the original receipt or bill of sale establishing the date on which the Product was purchased.

Please ship Authorized RMAs to:

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

Returning Products for Refund

30-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 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 three (3) 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.

b. Remedies for Breach of Warranty In the event of a breach of the foregoing warranty, Enable-IT will, in its sole discretion and at its cost and subject to the terms of the following paragraph, repair the non-conforming Product, replace the non-conforming Product with a new or reconditioned Product or refund of the purchase price for the Product. Any new or reconditioned Product provided pursuant to this paragraph is warranted as provided herein for the remainder of the original Warranty Period. THE REMEDY SET FORTH IN THIS PARAGRAPH SHALL BE THE END USER'S SOLE AND EXCLUSIVE REMEDY FOR BREACH OF THE FOREGOING WARRANTY.

c. Conditions for Warranty Qualification If authorized by Enable-IT to return a Product which does not conform to the warranty set forth above, the End User must: (1) obtain a return materials authorization (RMA) number from Enable-IT by contacting the Customer Service Dept. at 888-309-0910 between the hours of 8:00 a.m. and 5:00 p.m. PST and otherwise fully comply with Enable-IT's then-current RMA policy; (2) return the Product to Enable-IT in its original packaging freight pre-paid; and (3) provide to Enable-IT the original receipt or bill of sale establishing the date on which the Product was purchased.

Products returned to Enable-IT without an RMA number will be returned to the End User.

Enable-IT shall not be responsible for damage or loss during shipment of the returned Product to Enable-IT.

d. Voiding of Warranty. The express warranty set forth above shall not apply to failure of the Product if the Product has been subjected to: (i) physical abuse, misuse, improper installation, abnormal use, power failure or surge, or use not consistent with the operating instructions provided by Enable-IT; (ii) modification (including but not limited to opening the Product housing) or repair by any party in any manner other than as approved by Enable-IT in writing; (iii) fraud, tampering, unusual physical or electrical stress, unsuitable operating or physical conditions, negligence or accidents; (iv) removal or alteration of the Product serial number tag; (v) improper packaging of Product returns; or (vi) damage during shipment (other than during the original shipment of the Product to the End User from Enable-IT, if applicable).

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