

# Enable-IT 8916 1-Pair Long Reach Ethernet

## Installation Manual



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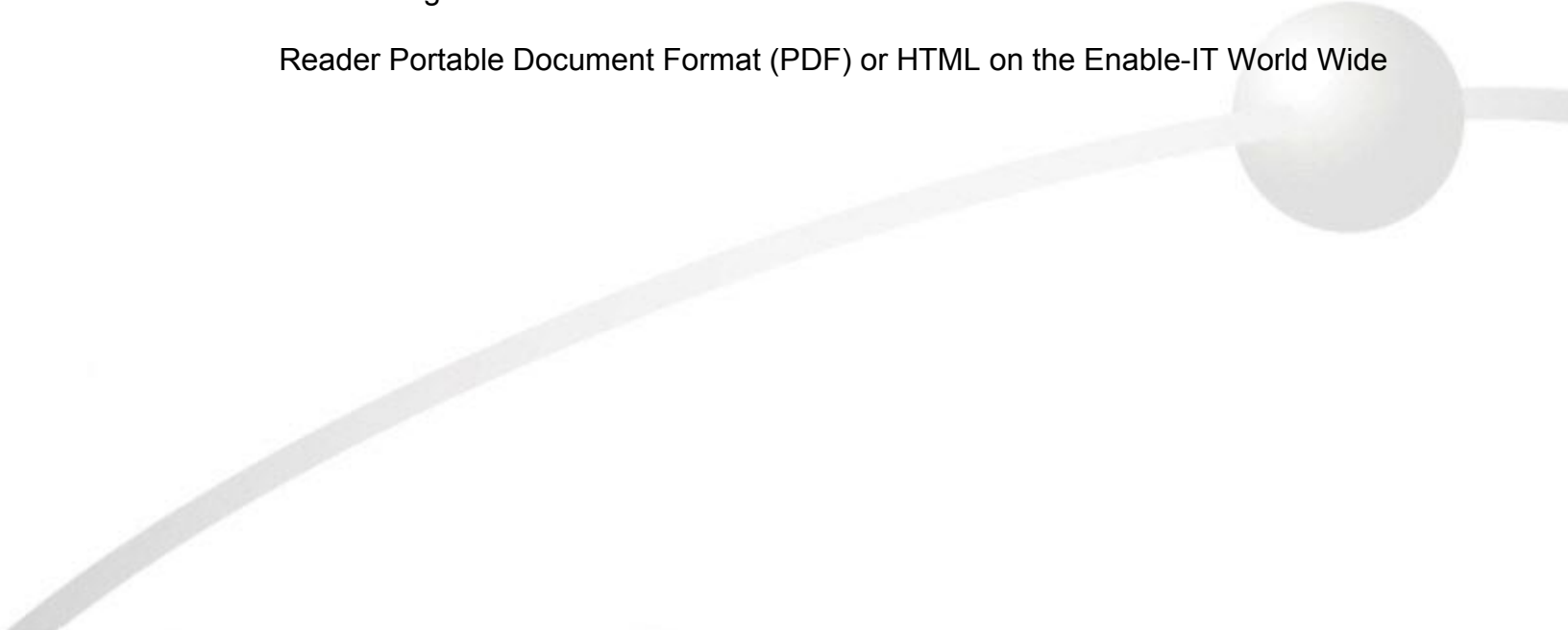
## ABOUT THIS GUIDE

This guide provides all the information needed to install and use the Enable-IT 8916 LRE Concentrator. 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

A decorative graphic consisting of a thick, light gray curved line that starts from the left edge of the page and curves upwards and to the right, ending in a large, light gray sphere.

# INTRODUCING THE 8916 LRE CONCENTRATOR

Congratulations on purchasing the Enable-IT's 8916 LRE Concentrator — the simplest method to stretch your broadband solutions for in-building deployment in commercial office buildings, hotels, and multi-tenant residential units.

The 8916 LRE Concentrator 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 8916 LRE Concentrator and how it can be used in your network with the Enable-IT 8910 LRE CPE. It covers the following topics:

- About the 8916 LRE Concentrator
- Key Benefits of the 8916 / 8910 solution
- Summary of Features
- Typical Applications

## About the 8916 LRE Concentrator

The 8916 LRE Concentrator is a very cost effective solution for providing high speed data and voice services over existing telephone wiring for commercial and hospitality environments.

In many office buildings, preferred network access is a dedicated Ethernet line, however Ethernet over twisted pair wiring has its distance limitations of just 325 ft. In order to drive Ethernet signal further, one would have to add repeaters to each segment of 325ft twisted pair cabling; this is often insufficient and too costly in multi-story buildings. Fortunately, the Enable-IT 8916 LRE can push the reach of Ethernet to more than (15) fifteen times the typical Ethernet distance over a 1-pair Telco wiring infrastructure along with an active voice line to a 8910 LRE CPE.

A simple design methodology would be to think of the 8916 extending a standard Ethernet line up to 7,500' (1,829m) and can also include a PABX voice line simultaneously.

To increase the durability and extended use of the product providing maximum future technology protection, 8916 LRE Concentrator meets the challenge of modern switched LANs and allows you to add features and capacity as your network expands. The Enable-IT 8916 LRE Concentrator has been tested to provide full duplex transport up to 13MB/s over CAT2, and up to 50MB/s over CAT3 and up to 80MB/s over CAT5e cabling. Users will see a full 100MB link on their connected laptop or other LAN equipment.

| Unit Model | Wiring                     | Min Data Rate | Max. Distance    |
|------------|----------------------------|---------------|------------------|
| 8916       | (1) pair CAT 2 up to CAT5e | 13Mbps FD     | 4,000ft / 1,220m |
|            | (1) pair CAT 2 up to CAT5e | 1.5Mbps FD    | 7,500ft / 2,286m |

## Key Benefits

The following list identifies the 8916 LRE Concentrator key benefits.

- Dramatic cost reduction over any competing technology.
- Broadband technology that delivers in-building Ethernet access over 1 pair of existing Category 2 up to Category 5e wiring up to 7,500', 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 POTS line and single 10/100MB Ethernet port.

## Summary of Features

The Enable-8916 LRE Concentrator has the following hardware features:

- 1 (16) port LRE Concentrator with 4 port 100MB uplinks
- Rapid Telco style installation – no programming required
- Supports digital VoD channels
- Drives Ethernet 10/100 Mbps full-duplex service delivery up to 7,500ft / 2,200m
- Network Equipment independence – Transparent to protocols/applications/MAC
- Maintains lifeline POTS

### Specifications:

Power Indicator  
10/100Mbps Link status/Activity  
Full Duplex/Half Duplex status/Collisions  
VDSL Link Status/Activity

### Dimensions:

Height: 1" (25mm)  
Depth: 15" (381mm)  
Width: 17.5" (444.5mm)

### Interfaces

(1) RJ-45 Console Port  
(16) RJ-11 POTS input  
(16) RJ-11 10/100MB LAN Auto negotiate

### Functionality:

Data Rates 10/100Mbps Full Duplex  
25Mbps throughput up to 4,000ft  
1.5Mbps throughput up to 7,500ft  
Protocol independent

### Environment

Operating temp: 0° to 50°C/32° - 122°F  
Storage temp: -25° to 60°C/-13° - 140°F  
Humidity 5% to 95%, non-condensing

## Typical Applications

Enable-IT 8916 LRE Concentrators are usually installed into telephone wiring infrastructures where extension of backbone services is required and expensive fiber options are prohibitive. The 8916 LRE Concentrators allow a standard Ethernet segment to be deployed quickly over existing 1 pair Telco Copper Wiring in combination with existing POTS voice signals.

Installers have the convenience of a 10/100Mbps LAN Ethernet unit for peace of mind connectivity and no CPE 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 8916 LRE Concentrator is a passive device so interruption of Internet service does not affect POTS services. Carriers and Access Providers can come and go, but the 8916 LRE Concentrator technologies continue to provide lasting value such as the other utilities like Water, gas and electricity.

The Enable-8916 LRE Concentrator 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)**



# INSTALLING THE 8916 LRE CONCENTRATORS

The 8916 Rackmount Long Reach Ethernet Concentrator is a simple to install and deploy Long Reach Ethernet solution. The 8916 supports up to (16) 8910 Long Reach Ethernet CPE units. Each 8910 LRE CPE has a maximum distance restriction of 7,500ft or 2,200m over Category 2 or better Telco wiring from the 8916 LRE Concentrator.

This section describes the recommended installation process for the 8916 Rackmount Long Reach Ethernet Concentrator and 8910 LRE CPE units. It covers the following topics:

- Installation Design Considerations
- Unpacking the 8916 LRE Concentrator
- Performing the 8916 LRE Concentrator Installation

## 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. Also the discovery should include several in-room wiring inspections to document where the main line enters the room and how the other in-room telephone jacks are connected and the type of wiring used for extensions.

Document your findings to use in planning your installation and resource planning. Key points to remember in the Site Survey.

- 8910 LRE CPE unit distance limitation of 7,500ft over CAT 2 or better Telco wiring from the 8916 Concentrator.
- 1 Pair Telco wiring or greater from the 8916 to each 8910 location.
- Location of main point of entry in the room for the first telephone wallplate.
- Location of the 8916 Concentrator is recommend in a 19-inch standard rack or cabinet with fan, grounded power and proper ventilation
- 8916 Concentrator can operate over active phone lines or spare unused lines running to each respective 8910 LRE CPE location.

## Unpacking the 8916 LRE Concentrator

Carefully remove the 8916 LRE Concentrator form the packing box including the provided cabling, rack mount hardware and manual.

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.

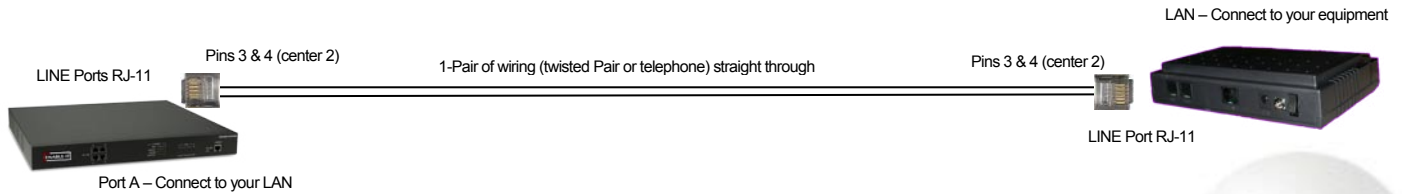
- (1) 8916 LRE Concentrator
- (1) 8916 Rackmount kit with 6 screws
- (1) Country specific power cord
- (1) Console terminal cable



## Installing the 8916 Rackmount LRE Concentrator

Carefully attach the rackmount hardware to the 8916 chassis and rackmount into your space selected. Cable the power adapter into the rear of the 8916 chassis, but do not switch on. Attach a separate ground wire if applicable or desired. In some instances the rack maybe grounded already and the mounting of the chassis into it will provide sufficient grounding.

We highly recommend testing (1) 8910 LRE CPE on each port of the 8916 LRE concentrator prior to installing the 8910 in each room. To do this, simply use the provided telephone patch cord to connect the 8916 to the 8916.



- 1** Prior to performing a remote link install, test your setup and equipment. Connect your LAN to the Ethernet port (Uplink A) of the primary 8916 unit and provided country specific power cord.

You will need to assign an static IP address to the 8916 Concentrator with corresponding, IP subnet and gateway IP address. To accomplish this you will need a serial console. By default the 8916 ships with a 192.168.0.1 IP address.

To log into and configure the 8916 concentrator you will need a serial terminal console. Insert the provided Console cable into the RJ-45 Console port on the front of the 8916 Concentrator. The settings for a serial connection are as follows: Protocol: Serial, Baud rate: 115,200, Data bits: 8, Parity: none, Stop bit: 1, Flow Control: none. Telnet (Serial over IP console) can be enabled for a LAN based serial connection once you set the IP address of the 8916. Power on the 8916 concentrator and using the serial console you can proceed to logon. Default Username: root Default Password: enableit

Select 1 – For Systems Setup, Select N – Network/Protocol Configurations, Select 2 to set the IP address, 3 for subnet and 4 for gateway, Select A to apply changes. Esc key will back up 1 menu tree. Esc to you reach the root menu and select logoff. All other settings should be left alone and are pre-configured for proper operation.

- 2** Unpack a few 8910 CPE units and using the provided telephone patch cord in each 8910 CPE kit, connect each end of the cord into the Line port on the back of the 8916 concentrator and back of the 8910 CPE. Connect a laptop to the Ethernet port of the 8910 CPE and power on the 8910 CPE. Power on all equipment and test your connectivity and throughput. The Power, Activity and Link lights will initially come on. After the Sync light illuminates green your units are in sync and connectivity is established.

If the Alarm light illuminates red, then the wiring between the 8910 CPE and 8916 concentrator is not able to provide synchronization between each end. Items to check are reversed wire between the 8910 and 8916, firm connection of telephone patch cord in the 8910 CPE and power applied and each 8910 CPE switched on. A DSL filter can clean up any noise on the line that may affect the data losing connection (RED Alarm light) from time to time.

- ③ Once you have tested all (16) ports of the 8916 for connectivity, you can begin the remote installation of the 8910 LRE CPE's. Locate them to a permanent location such as desktop mounted under the desk). Insert the telephone patch cord into the LINE port on the back of the 8910 CPE and the other end into the wallplate connected to your telephone wiring. Attach the provided wall power adapter to the electrical outlet and the 8910 CPE. Power the unit on and attach the provided 8801 Desktop Ethernet extender cable. Power on all equipment and test your connectivity and throughput.
- ④ For troubleshooting, first examine the telephone wiring pair and make sure you have solid connections. The Sync LED will be lit green on the 8910 CPE to show proper connection and airing with the 8916 concentrator. If the Sync LED is not lit or lit Red, try swapping the order of the 1-pair telephone wiring at the telephone wallplate jack.

**We highly recommend testing a few ports/rooms to clearly understand the process and specific wiring.**

# TROUBLESHOOTING TECHNICAL REFERENCE

There are few issues that can effect the proper operation and installation of Enable-IT 8916 concentrator or the 8910 CPE. These technical notes address the proper installation and the most common, troubleshooting challenges that may arise.

Assuming the equipment is installed correctly; troubleshooting challenges fall into two (2) categories: Equipment Defects - DOA; in-Room wiring issues – shorts, cable quality, and or wiring configuration.

To test questionable 8916 ports and/or any suspect Enable-IT 8910 CPE simply attach a known good Enable-IT 8910 CPE directly onto the 8916 port at the back of the 8916, Line port. Connect your PC and verify Ethernet connectivity to the switch. If no connectivity is detected, try another 8916 port or swap the 8910 CPE.

If connectivity is established with the tested 8916 port and Enable-IT 8910 CPE, then your troubleshooting focus is the in-room wiring or the Home run wiring from the room to the 8916 1-Pair Ethernet Extension controller.

## ***Equipment Defects - DOA***

Enable-IT, Inc. certifies all of our equipment prior to shipping and takes protective precautions when shipping orders; however, there are possibilities of shipping damage during transit.

In order to save time in your installation process, we recommend that your installation engineers carry several Enable-IT 8910 CPE with them when installing rooms. This way they can focus on getting rooms up and running and set aside any suspect CPE to be tested for DOA.

When DOA equipment is discovered, please contact your Enable-IT sales representative immediately so that we can RMA and replace your units in a timely manner for your project.

## ***In-Room Wiring***

In-Room wiring and the home run wiring scheme are where connectivity issues are often found. We highly recommend looking at the segments of the cabling to quickly pinpoint the issue and move on to the next room or troubleshooting challenge. To understand the segments involved for room wiring and troubleshooting, please refer to the following descriptions and sample diagram:

- (1) Home run wire (Wiring segment from the IDF or MDF to the main point of entry jack for a given room). This segment should be under 7,500 feet long and can be easily tested following the Steps as listed in the installation guide.
- (2) In-Room phone extensions (Wiring segments from the Main point of entry jack to all other in-room phone jacks). These segments can be daisy-chained, a star configuration, or a combination of both. In all cases you must document the wire color and wire number order on the main point of entry jack in relation to all the other in-room attached wiring segments. Connect only the jack needed for the location of the Enable-IT 8910 CPE and test.

DSL filters can be used in any existing telephone wallplate that is connected to the in-room wiring between the Enable-IT 8910 wallplate and the Enable-IT 8916 concentrator to filter out any line noise interference. Existing telephone wallplates that are after the Enable-IT 8910 attached wallplate do not need the DSL filter installed.

## **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.

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Enable-IT, Inc. warrants to the original purchaser of the Product ("you" or the "End User") that, for the one (1) 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. Optional two (2) year and three (3) year warranties are available to extend this coverage if purchased during the first year of coverage.

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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**

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.

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