



ETHERNET EXTENSION EXPERTS

Enable-IT 821 Ethernet Extender Quickstart Guide

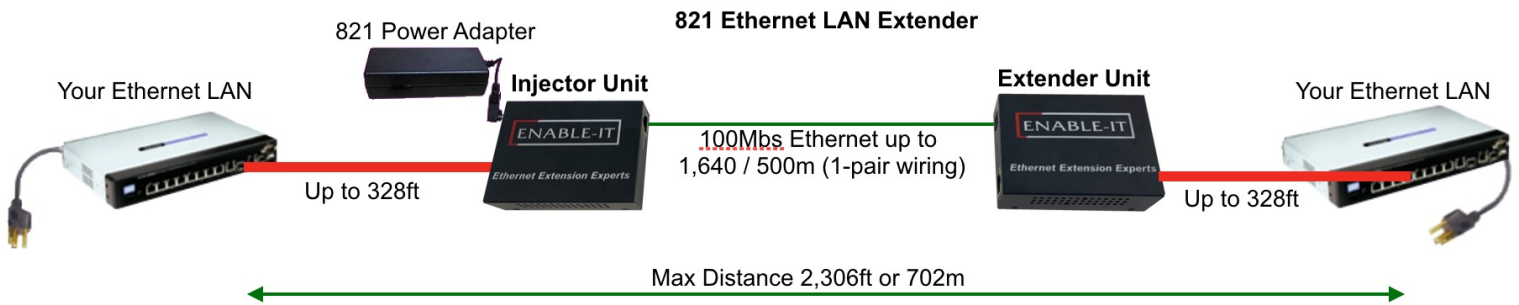


Professional Grade Networking



INSTALLING THE 821 ETHERNET EXTENDER

The Enable-IT 821 Ethernet Extenders have a distance reach of up to 1,650ft (500m) over any 1-pair wiring (Telephone, Coax, or Category rated) between the 821 units. You can add additional 328ft (100m) onto the end of each 821 LAN output ports for a total distance of 2,306ft (702m) from device extension to device extension. Therefore a site survey of the wiring and installation planning are highly recommended. For highest performance use lower gauge wiring like 14AWG ~ 24AWG for the interlink wiring.



The Overview Diagram: This diagram shows the contents of the product box inside the rectangle. Devices outside the rectangle above are your equipment that can be attached.

We highly recommend that you perform a quick out of the box test to ensure the working order of your Enable-IT 821 Ethernet Extender units prior to installing. This will also serve to familiarize you with how easy the process should be. Follow the steps below to perform the Out Of the Box Test.

- Step 1** - Attach the 821 DC power adapter to the 821 Injector unit and to your AC outlet. The Power LED will indicate the unit is receiving power as well as the 821 56V 65W DC Power Adapter green LED.
- Step 2** - Connect the 821 units together using one of the Ethernet LAN Patch cords provided – attach to the RJ-45 LRP Interlink port on each 821 unit as shown by the green line connecting the ports in the diagram above. The Power LED indicator on the 821 Extender unit and LAN ports will provide visual operational status of the 821 units.
- Step 3** - Attach and test and to confirm your LAN Equipment works through the 821 extension, connect your Ethernet LAN to the 821 Injector unit LAN port and the remote device/s to the 821 Extender LAN port and test connectivity.

This confirms basic proper operation of the units.

Performing the On-Site Installation

After removing the Enable-IT 821 Ethernet Extender Kit from the box, and performing the Out Of The Box Testing (OOTBT), 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.

Mounting the Enable-IT 821 Ethernet Extender Units

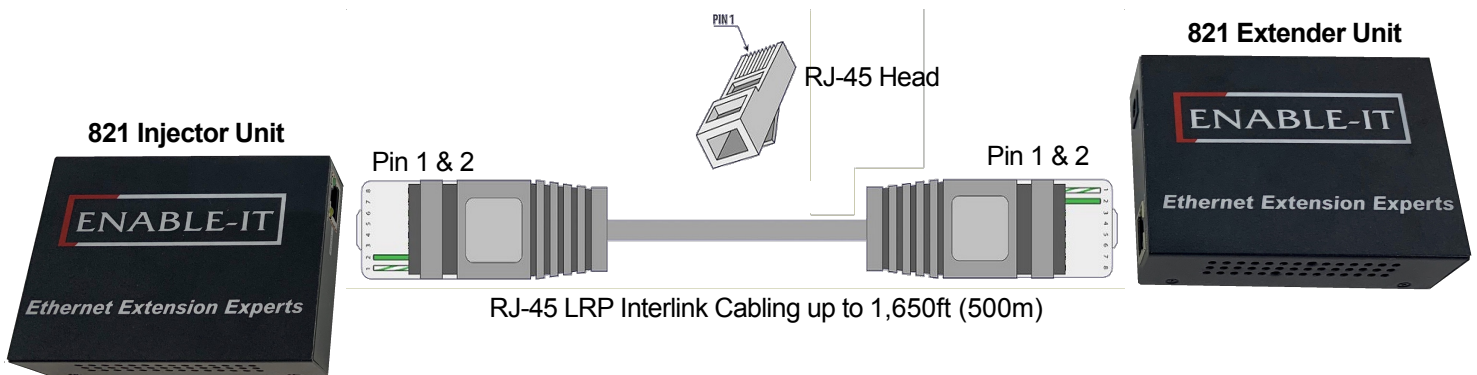
The Enable-IT 821 extended Ethernet solution is designed for quick wall mounting. Choose a location to mount each of the Enable-IT 821's where the maximum distance does not exceed 2,306ft (702m) total between devices to be connected. When wall-mounting the Enable-IT 821 unit it is recommended that you 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.

Building the 821 LRP Interlink Wiring

The most important aspect of the installation is the correct wiring of the Interlink cabling.

The 821 LRP Interlink port (RJ-45 interface) carries this 1-pair signaling and power over the RJ-45 (pins 1 & 2) - used as transport. If you use more than 1-pair of wiring, such as a CAT5 segment, the remaining RJ-45 pins can transport native 802.3f / 802.3at PoE, or are unused.

For all wiring 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) straight through. We recommend using a category rated twisted pair cable as it is optimized for high throughput frequencies isolated from cross-talk noise. Insert the completed RJ-45 ends into the 821 LRP Interlink port on each 821 unit.



Cabling Devices to The Enable-IT 821 Extended Ethernet Kit

Attach your remote LAN device to the 821 Extender unit LAN port with Ethernet patch cord provided. Attach your local LAN to the 821 Injector LAN port with Ethernet patch cord provided. Attach the 56V - 65W power adapter to the 821 Injector unit.

Attach your local LRP Interlink cabling end to the 821 Injector unit LRP Interlink port – Then do the same for the remote end and plug into the 821 Extender unit LRP Interlink port. The Interlink side Green Sync LED should be solid, indicating is sees the remote partner. There is no sync delay! Your equipment should now be powered up and functioning.

The LED indicators will provide visual operational status of the 821 Ethernet Extender units.

Troubleshooting

First examine the backbone wiring pair and make sure you have solid connections. The LRP Interlink Sync LED will be lit solid Green on each 821 unit. The units sync instantly and have no delay. if either fail to light up.... Then follow the steps below:

- 1) Make sure your wiring is straight through and not connected to any Telco punch down blocks; 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 821 unit, and power is applied to the 821 Injector unit. The 821 Extender unit should be receiving power.
- 3) **You can easily isolate any issue by performing an Out Of The Box Test (OOTBT). This test will confirm the correct working order of your Enable-IT 821 Ethernet Extender Kit. This will point to a possible issue with your long distance LRP Interlink wiring being affected by possible outside interference.**

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

<https://support.enableit.com>

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Enable-IT warrants to the original purchaser of this described Product ("you" or the "End User") that, for the limited lifetime 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. **Electrical or water damage is not covered under this warranty, extended warranties or Advanced Replacement Program (AREP).**

In order to obtain an authorized RMA approval, the End User must complete the required information online located at <https://support.enableit.com>. If you have questions or difficulty completing this information you may contact the Customer Care Team at 888-309-0910 between the hours of 8:00 a.m. and 5:00 p.m. PT.

Please ship Authorized RMAs to:

RMA Warranty Repair Processing Facility
16027 Brookhurst St, Suite i272
Fountain Valley, CA 92708-1551

Returning Products for Refund

Enable-IT, Inc. offers a generous 45-Day refund on a single Ethernet Extender Kit only, and is subject to a 15% Restocking Fee. Shipments without a valid or authorized RMA number, or sent to our corporate Las Vegas address, can be refused and / or billed for additional shipping.

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Enable-IT warrants to the original purchaser of this described Product ("you" or the "End User") that, for the limited lifetime 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.

Electrical or water damage are not covered under this warranty, extended warranties or Advanced Replacement Program (AREP).

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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 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.

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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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