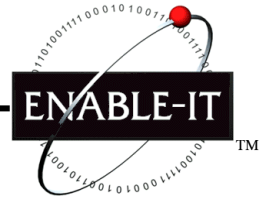


Ethernet Extension Experts



Enable-IT 860 Rev E Ethernet Extender Kit Quickstart Guide



INSTALLING THE 860 ETHERNET EXTENDER

Installation

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.

- 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.

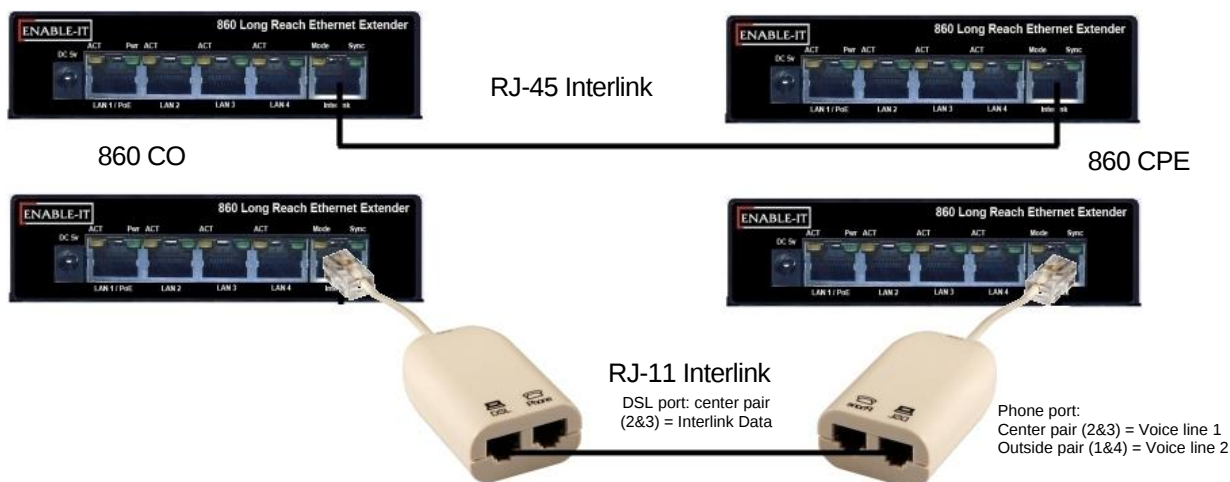
For the Interlink wiring you can use either RJ-45 or RJ-11 connectors. Crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins (1 & 2) straight through. This will deliver 1 Voice line, Ethernet Data. If you desire to use the second voice line, you can also use pins (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. As an option the RJ-11 interface on the side of the 860 for use with existing RJ-11 wiring. The RJ-11 dongles do not transport PoE currently but can be easily added if needed on request at time of ordering.

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

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

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 or RJ-11 connections in each 860 unit, and 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)