

**EOC110K**  
**EOC110R**  
**Instruction Manual**

# Ethernet over Coax

**Ethernet over Coax Adapter Kit**

**Ethernet over Coax Receiver**

**StarTech.com**   
*Making hard-to-find easy!*<sup>®</sup>

## **FCC Compliance Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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## Introduction

The StarTech.com EOC110K Ethernet over Coax extender kit allows you to span a 10/100 network over extremely long distances (up to 1.2km) while still maintaining high speed network connectivity. Allowing Ethernet connections over existing Coaxial cable with little to no modification, providing a perfect solution for a broad range of applications, including connecting isolated user stations from the same or separate building, or overcoming infrastructure obstacles and distances (e.g. older stone/concrete architecture) where new wiring or wireless may be impossible.

## Packaging Contents

- 2 x Ethernet over Coax converter box\*
- 2 x Power Adapter\*
- 1 x Instruction Manual

\*EOC110R only contains one unit

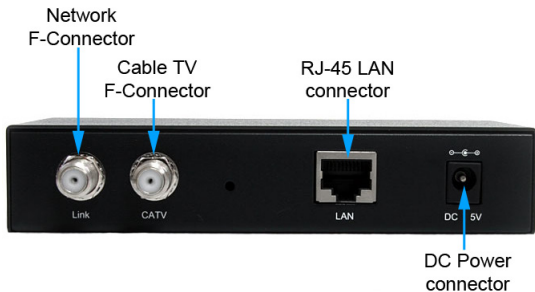
## System Requirements

- 10/100Mbps compatible Ethernet network/equipment
- Coaxial cabling (RG-59/6/7/11)
- Available AC power outlet at converter box locations

## Front View



## Rear View



# Installation

## Hardware Installation

**NOTE:** Both of the converter boxes in the EOC110K kit are identical, so they can be installed at either end, in any order.

1. At one of the locations for the converter box, connect an RJ45 Ethernet cable from the existing Ethernet network or computer network adapter to the “LAN” port on the converter box.
2. Connect the coax cable to the “Link” F-Connector on the converter.
3. **OPTIONAL:** If also transmitting analog cable TV signals over the coax line, connect the CATV F-Connector to a TV or TV receiver. Digital cable TV signals are not supported.
4. Connect the included power adapter. The power LED should light up solid. The LAN Link/Act LED should light up solid when successfully connected to an Ethernet device on the “LAN” port.
5. Setup additional converter boxes by following the same Steps 1~4 for each location.
6. Once all units are setup, they should be able to automatically locate one another over the coax cabling. The Coax Link and Sync LEDs should stay solid once communication is established. The Coax Link LED will flash during communication.
7. The devices plugged into the “LAN” ports should now be able to communicate with one another freely.

## Driver Installation

No driver or software installation is required for these converters on any connected computer systems.

## Cable Lengths

Maximum bandwidth (Mbps) based on coaxial cable type and length.

Distance	RF Bandwidth	RG-59	RG-6	RG-7	RG-11
100m ~ 700m	< 30MHz	144	144	144	144
800m		128	144	144	144
900m		112	144	144	144
1000m		96	128	144	144
1100m		80	128	144	144
1200m		64	112	128	144
1300m			80	128	144
1400m			80	128	144
1500m			64	112	144
1600m				96	128
1700m				80	128
1800m				80	128
1900m				64	112
2000m					112
2100m					96
2200m					80
2300m					80
2400m					64

## Specifications

<b>Transmission Standards</b>	ITU G.9954, IEEE802.3, IEEE802.3u, IEEE802.3x
<b>Connectors (per unit)</b>	2 x F-Connector female 1 x RJ45 female 1 x DC Power
<b>LEDs (per unit)</b>	1 x Power 1 x LAN Link/Activity 1 x Coax Link/Activity 1 x Coax Sync
<b>Compatible Cabling</b>	RG-59, 6, 7, 11
<b>Maximum Distance</b>	2400m (RG-11)
<b>Power Adapter</b>	5VDC, 2000mA, center positive, type M plug
<b>Operating Temperature</b>	0°C ~ 55°C (32°F ~ 131°F)
<b>Storage Temperature</b>	-10°C ~ 65°C (14°F ~ 149°F)
<b>Humidity</b>	10% ~ 90% RH
<b>Dimensions (per unit)</b>	280.0mm x 138.0mm x 76.8mm
<b>Weight (per unit)</b>	320g



## Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit [www.startech.com/support](http://www.startech.com/support) and access our comprehensive selection of online tools, documentation, and downloads.

## Warranty Information

This product is backed by a one year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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