



## User Manual – Data Sheet

# Ethernet Over Coax Extender Kit 10/100Mbps

## EoC-100K

EoC-100-HOST



Host Unit - PSE Side

EoC-100-D



Device Unit - PD Side

This kit has the advantage of extending 200~300m / 650~900ft by a one-side powered Ethernet over coax pair units. The **Powered Sourcing Equipment (PSE), EoC-100-HOST**, is powered by 24V DC, and transmit power and Ethernet data signal through a single coaxial cable to the **Powered Device (PD), EoC-100-D**, which is connected to an IP camera or a storage device.

## Features

- Extend Ethernet signal over coax
- 10/100Mbps / Full duplexer
- Coax cable: RG59 video-grade coaxial cable or better
- Extend the transmission distance of Ethernet signal from 100m / 328ft to 200~300m / 650~900ft
- Allow you to save money by using existing coax cable
- BNC connector / RJ45
- 24V DC Powered Sourcing Equipment - Host Unit



*Please read the Manual before attempting to use this product.  
Specifications and appearance are subject to change without notice.*



## CAUTION

RISK OF ELECTRICAL SHOCK  
DO NOT OPEN!



TO REDUCE THE RISK OF ELECTRICAL SHOCK,  
DO NOT OPEN COVERS (OR BACK).  
NO USER SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED  
SERVICE PERSONNEL.



### **Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).**

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



### **Caution**

#### **1. Handle this product with care**

Avoid any shock or bumping of the product. Improper handling could damage the product. Do not handle the unit with wet hands. Provide proper ventilation and air circulation and do not use near water.

#### **2. Requires a proper operating environment**

This product is not waterproof and is designed for indoor use. The allowable temperature range for operation of this product is between  $-0^{\circ}\text{C}\sim 40^{\circ}\text{C}$  /  $32^{\circ}\text{F}\sim 104^{\circ}\text{F}$ .

#### **3. Check the power source voltage**

The power source voltage should be within the specified range. (Product must meet the specifications).

#### **4. Objects and liquid entry**

Never push objects of any kind into this product as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product. Keep away the objects that might damage the device and assure that the placement of this unit is on a stable surface.

#### **5. Cleaning**

Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

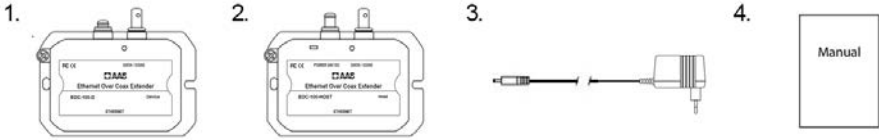
#### **6. Servicing**

Do not attempt to service this product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

## Package Contents

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1. One (1) Ethernet Over Coax Extender Host Unit
2. One (1) Ethernet Over Coax Extender Device Unit
3. One (1) 24V DC 1Amp Power Adapter
4. One (1) Manual – Data Sheet



\* For any returns, please include all components listed above with original packaging in **Resalable Condition**. **Absolutely No Returns** will be accepted if any component is missing/damaged.

## Installation

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1. Use Ethernet Cable to connect the Ethernet Port of **EoC-100-HOST** to the network.
2. Connect a coaxial cable between the two units.
3. Use Ethernet Cable to connect the Ethernet Port (remote **EoC-100-D**) to the computer or PoE IP camera.
4. Finally, connect the 24V DC adaptor to the Power socket.

### LED Status:

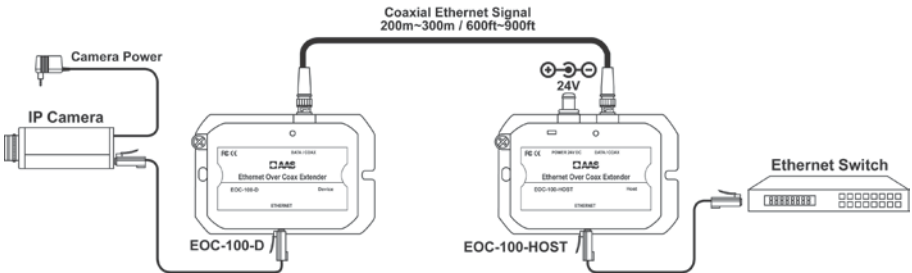
A green solid light indicates a proper connection to the power supply.

### LAN LED:

The LED blinks during data transmission.

## Application Diagram

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## Troubleshooting

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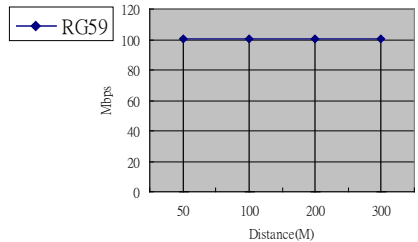
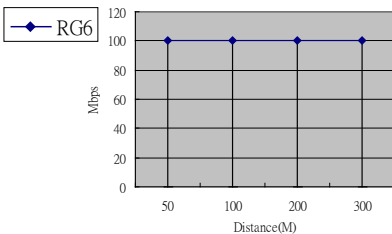
Symptom	Solution
LED light does not have solid green light	Make sure you are using the correct type of power adapter and that it is properly plugged into the power outlet, and into the unit.
LED light is "ON" for both units but does not blink	<ol style="list-style-type: none"> <li>1. Make sure the coax cable is properly connected to the units on both ends.</li> <li>2. Make sure the Ethernet cable is properly connected to the units on both ends.</li> <li>3. Make sure the network devices are turned on and configured with the correct network settings. (Settings are unique to your network. See your network equipment/devices' user manual for instructions on configuring your settings)</li> </ol>
Speed is not what I expected	Make sure you are using the correct rated cable and for maximum performance (See technical specifications). Keep cable away from high powered devices and other AC power cables.

## Technical Specifications

Kit Model		EoC-100K	
Model		EoC-100-HOST	EoC-100-D
Unit Type		Host Unit – PSE Side	Device Unit – PD Side
Interface	Data Port	1x RJ-45 female connector (IN)	1x RJ-45 female connector (OUT)
	Power Port	1x DC Jack (IN)	---
	Data + Power Port	1x BNC Connector (OUT)	1x BNC Connector (IN)
	Cable	RG59, RG6, or RG11 video-grade coaxial cable (used for cable CATV or CCTV)	
Electrical	Standard	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX	
	Speed	10/100Mbps for full duplexer	
	Transmission Distance	0~300m / 0~900ft for coaxial cable 100m / 328ft UTP cable + 300m / 900ft coaxial cable + 100m / 328ft UTP cable available	
Power	Input Operating Voltage	24V DC @ Power port	No Power Required
	Power Consumption	1Amp / <=2.4 W	
Environment	Operating Temperature	-10°C ~ +60°C / 14°F ~ 140°F	
Physical Properties	Enclosure Material	Aluminum alloy	
	Mounting	Wall mounting available	
	Dimension WxHxD	112.2 x 31.5 x 71.3 mm / 4.4 x 1.2 x 2.8 inches	

\*Specifications are subject to change without notice

## Data Transmission Graph



## Limited Warranty

### LIMITED ONE (1) YEAR WARRANTY AND EXCLUSIONS

Manufacturer warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Manufacturer is free of defects in materials and workmanship under normal and proper use for one (1) year from the purchase date. Manufacturer's only obligation is to correct such defects by repair or replacement, at its option, if within such one (1) year period the product is returned prepaid, with proof of purchase date, and a description of the problem. This warrant excludes and there is disclaimed liability for labor for removal of this product or reinstallation. **This warranty is voided if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other implied warranties of any kind, including merchantability and fitness or a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warrant, including merchantability and fitness of or a particular purpose, is limited to one (1) year. Manufacturer is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or failure to perform this warranty obligation.** The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

[www.AAS.com.tw](http://www.AAS.com.tw)

FC CE RoHS EOC-100K

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