Ethernet over Coax
eco-wire100T & eco-wire100R

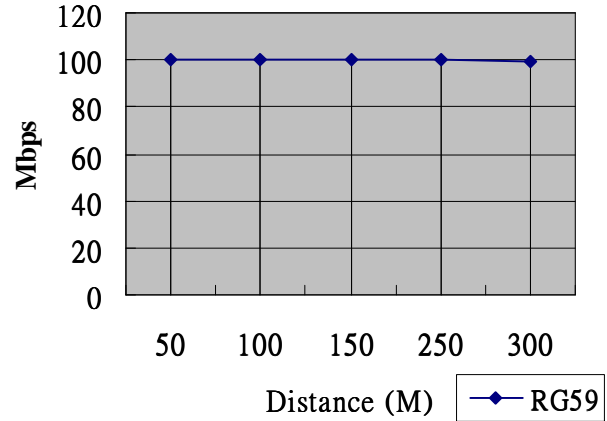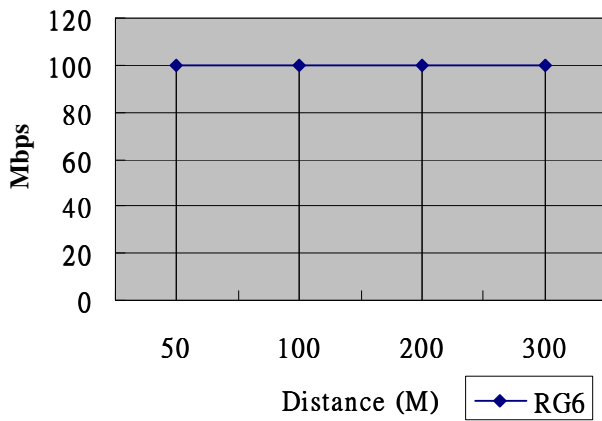**eco-wire100T**   **eco-wire100R**

Description:

This is a preliminary specification for "Ethernet over Coax" solution. It has the advantage of extending span over 300m by a very simple one-side powered Ethernet over coax pair. There is no need to power locally at eco-wire100R. eco-wire100T is powered by 24V DC, and transmit power and Ethernet data signal into a single coaxial cable to remote eco-wire100R which is connected to IP camera or storage device. By using this product, users can extend Ethernet signal to long distance through coaxial cable and use one-side powered to save power wiring engineering.
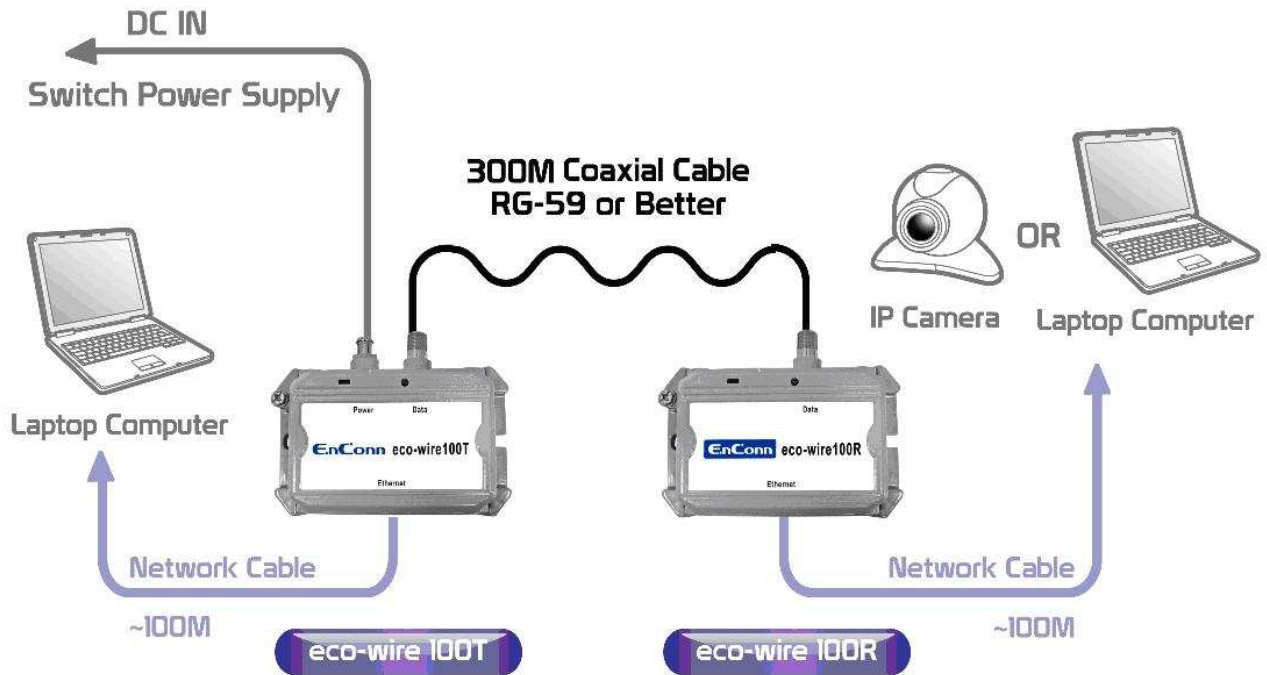
Specification:

Model Number		eco-wire100T	eco-wire100R	
Interface				
Connector	Data Port	1 RJ-45 female connector (IN)	1 RJ-45 female connectors (OUT)	
	Power Port	1 DC Jack (IN)	----	
	Data+ Power Port	1 F female connector (OUT)	1 F female connector (IN)	
Cable		RG59, RG6, or RG11 video-grade coaxial cable (used for cable TV or CCTV)		
Electrical				
Standard		IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX		
Speed		10/100Mbps for full duplexer		
Transmission distance		0~300m for coaxial cable 100m UTP cable + 300m coaxial cable + 100m UTP cable available		
Power				
Power over Coax Cable		YES		
Input Operating Voltage		24 VDC @ Power port	12~24 VDC @ Power + Data port	
Power consumption		<=2.4 W	<=2.4W	
Mechanical				
Enclosure material		Aluminum alloy		
Mounting		wall mounting available		
Dimension		112.2 mm x 71.3mm x 31.5 mm	112.2 mm x 71.3mm x 31.5 mm	Not include connector
Environment				
Operating temperature		-10 to +60degree C		

Data transmission graph

Application:

Hardware Overview

eco-wire100T

Coaxial

Ethernet Signal + DC Power In

Power Cord socket

Power LED

LAN LED

Ethernet 10/100

RJ45 socket

eco-wire100R

Coaxial

Ethernet Signal + DC Power Out

Power LED

LAN LED

Ethernet 10/100

RJ45 socket
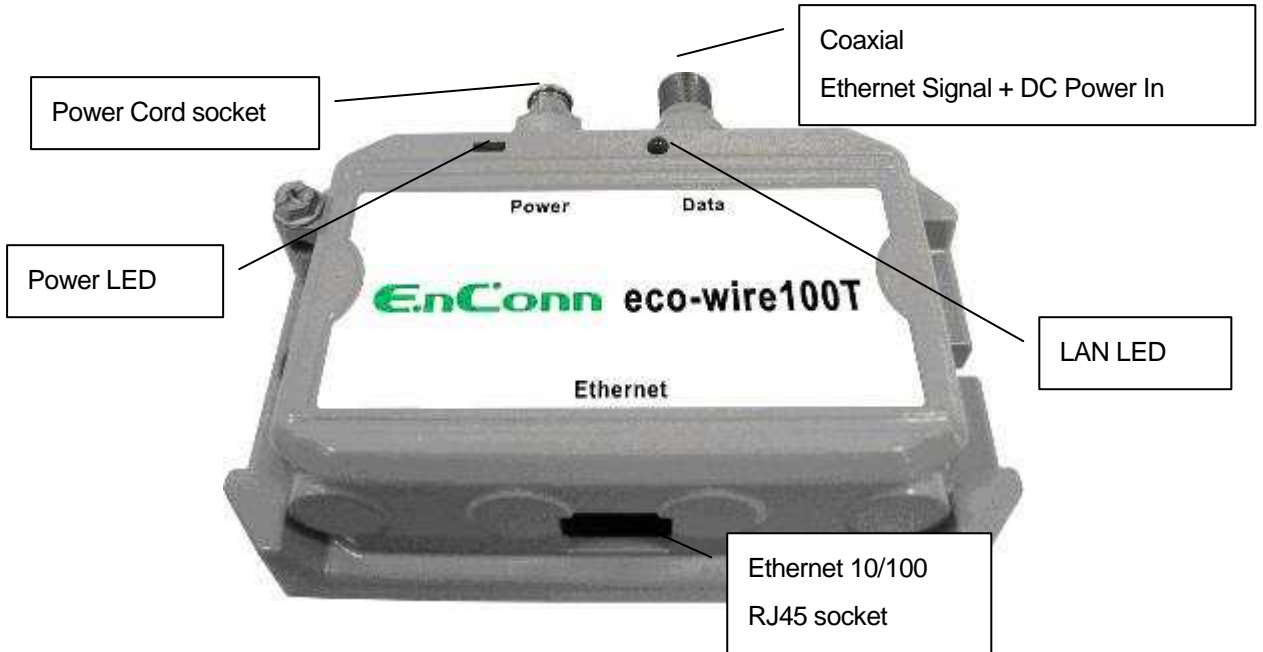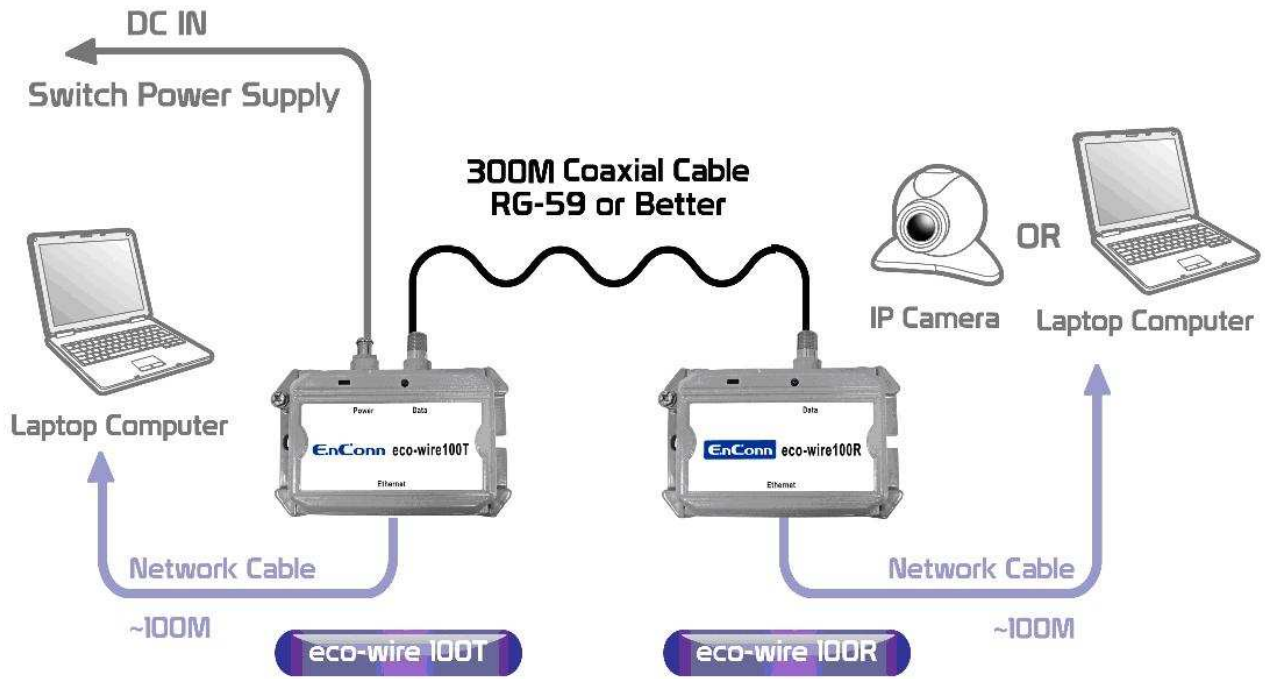
Installation

Refer to the above diagram when installing.

1. Use Ethernet Cable to connect the Ethernet Port(ECO-wire100T) to the computer

2. Connect a coaxial cable between the eco-wire100T and the eco-wire100R.

3. Use Ethernet Cable to connect the Ethernet Port(eco-wire100T) to the computer or IP camera

4. Finally, connect the 24V DC adaptor to the Power socket

-Status LED

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

-LAN LED

The LED blinks during data transmission.