

**MODEL: EOCCPK Ethernet Power Over Coaxial Master/Slave Transceiver**

**Description:**

The **EOCCPK** is designed to extend IP Ethernet transmission and forward power over coaxial cable to IP POE cameras. The **EOCCPK** has a transmission distance up to 600m/1968ft (RG6) and is extremely simple to use. Status LEDs indicate power and link connectivity/activity for RJ45 ports.

**Features:**

- No PC required, plug & play design reduces the cables and power distribution cost
- Transmits IP camera signals or other 10/100 Base-T Full Duplex IP devices over coaxial cable
- Injects power over an existing coaxial cable to IP POE cameras
- Up to 600 Meter transmission distance when using RG6 cable / 1640ft. using RG59 cable
- Built-in 6KV surge protection at BNC and 4KV at RJ45 ports

**SPECIFICATIONS:**

MODEL	EOCCPK
<b>Extender Interface</b>	
Connector Type	1x BNC
Cable Type	75-ohm RG59, RG6, or RG11 video-grade coaxial cable
Max. Transmission Distance	600m (1968ft.) for RG6 coaxial cable / 500m (1640ft.) for RG59
<b>Ethernet Interface</b>	
Connector Type	1x RJ-45 with LEDs on Connector
Cable Type	Straight through or cross-over Cat5/Cat6 Cable, Auto MDI/MDIX
Rate	IEEE 802.3x, Auto-Detection for 10/100Base-T and full/half duplex
Output Voltage	IEEE 802.3af/at PSE@ RJ45 Port
<b>Control &amp; Indicators</b>	
Color LED Indicator for Coaxial Data Signal Strength	Green : GOOD (Link speed > 60 Mbps) Amber : MEDIUM (Link speed 20~60Mbps) Red : BAD (Link speed < 20Mbps) OFF : NO LINK
Yellow LED (On RJ45)	Power On
Green LED (On RJ45)	Link/Act.

Pairing Push Button	Reset / Pairing (Join or Leave Network Group)		
	Push Duration	LED Status	Description
	1 – 3 sec	Red Blink	Join/Host Network Group
	5 – 8 sec	Amber Blink Once -> OFF	Leave Network Group
	12 - 30 sec	OFF -> Amber Blink Once	Reset to Default Network Group
<b>Power</b>			
Input Operating Voltage	DC 56V / 65W (Included)		
Power Consumption	1.5W (w/o power forwarding)		
<b>Mechanical &amp; Environmental</b>			
Weight	176g (6.2 oz)		
Dimensions (W × L × H)	38 x120 x 33mm (1.5"x4.7"x1.3")		
Operation Temperature	-20C ~ +60°C (-4°F ~ 140°F)		
Storage Temperature	-30°C ~ 80°C (-22°F ~ 176°F)		
Humidity	20% to 85% RH. (non-condensing)		

1. All **EOCCPK** are paired to the same network group by factory default, they can be installed directly with no need for pairing again.
2. The transmission system consists of one transceiver at NVR side and one transceiver that connects to IP cameras or other IP devices.
3. When using two or more transmission systems at the NVR or Control room – if there is no cross-talk between the two systems then there is no need to perform the pairing process.
4. To **join** another network group, must **leave** current group first, then do the group **join**.

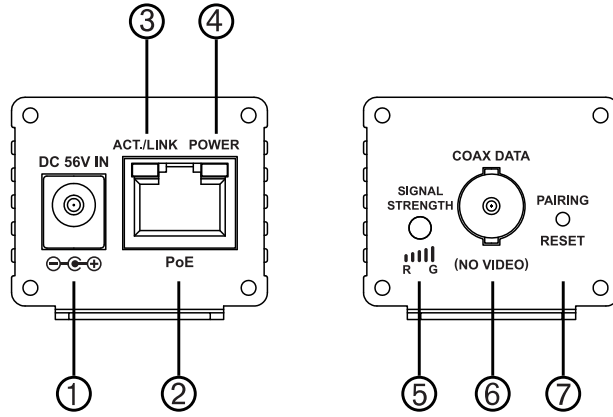
#### Transmission Distance with Power Delivered:

Power Source	Power Delivered					
	Not using PoE output	5.5W	7W	9W	12W	17W
56VDC Power Supplied	<b>Maximum Coax RG6. Data Link Distance</b>					
	2000m	600m	500m	400m	300m	200m
	<b>Maximum Coax RG59. Data Link Distance</b>					
	1800m	500m	450m	350m	250m	150m

#### Packing

1. EOCCPK Transceiver ×2
2. User Manual ×1
3. Wall Mount Hardware Kit ×2
4. DC 56V / 65W Power Adaptor ×1

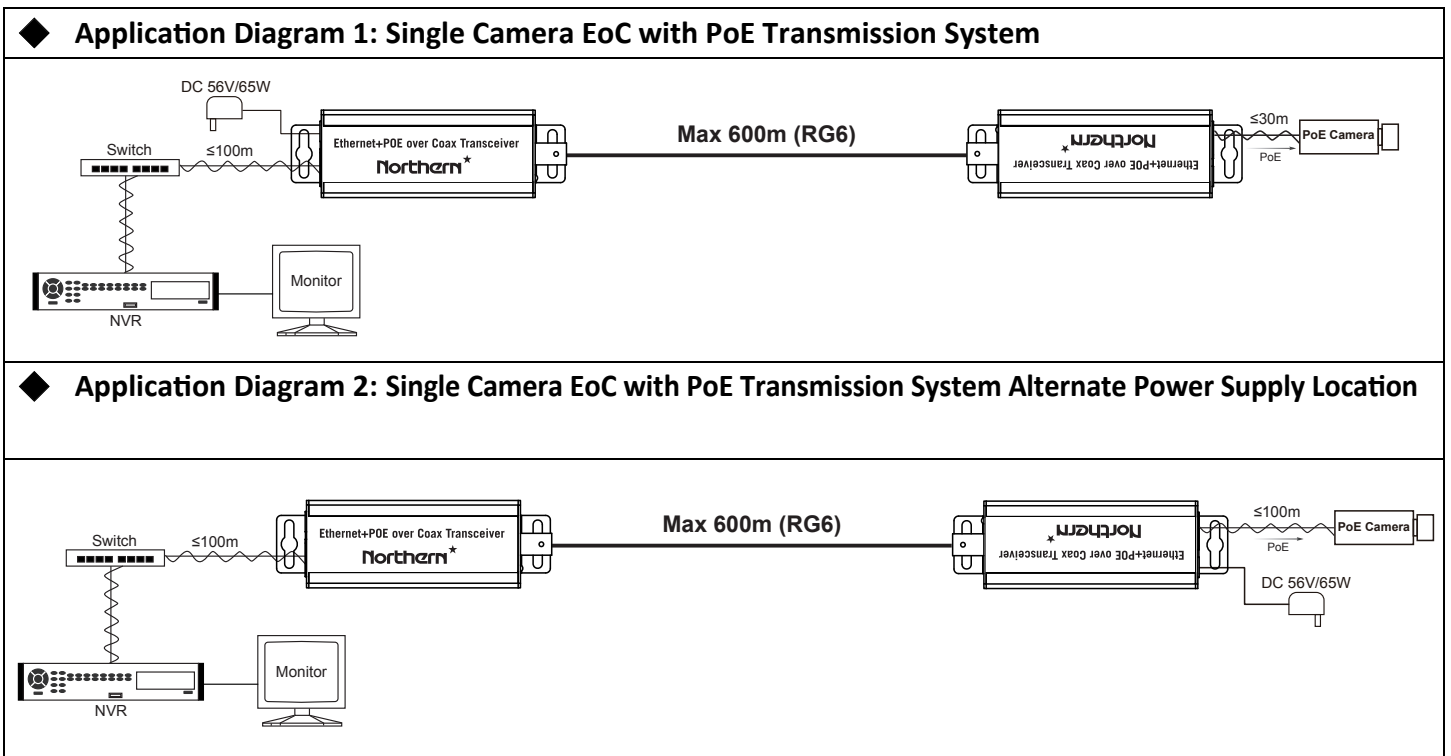
**PANEL DESCRIPTIONS:**



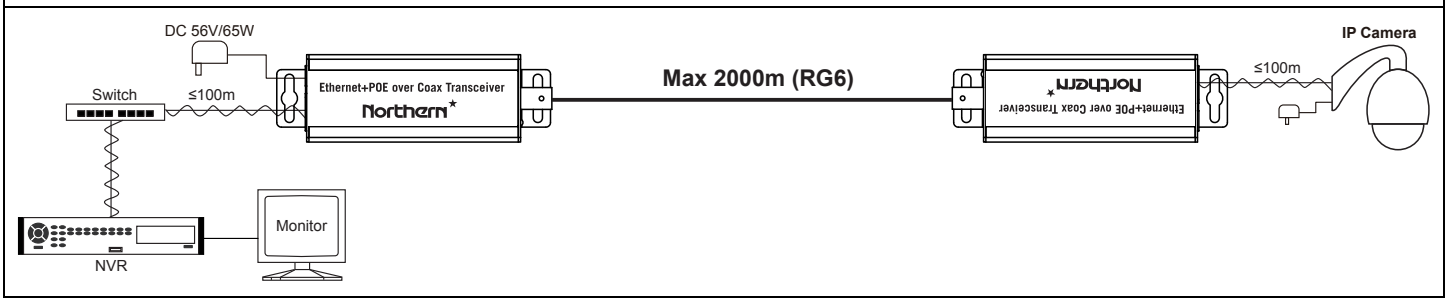
1. DC56V IN: Power Supply DC56V/65W (Included).
2. PoE: Ethernet Interface (10/100Mbps for full duplex), for PoE Output to camera
3. ACT./LINK: Data Link for indication LED
4. POWER: Power On for indication LED
5. SIGNAL STRENGTH: G(Green):GOOD  
A(Amber):MEDIUM  
R(Red):BAD  
OFF : NO LINK
6. COAX DATA: Coaxial Transmission with High Voltage
7. PAIRING/RESET: **PAIRING** for network group **join/leave** / **RESET** for factory default network group

**CONNECTION DIAGRAM:**

**Notice:** Cable quality, camera bandwidth used and power supply noise can cause actual distances which may not match the diagram below.



### ◆ Application Diagram 3: Single Camera w/ External Power Supply EoC Transmission System (No PoE)



**Before starting the pairing process, please check the notice below**

- 1) If only setup one transmission system at NVR or control room side there is no need to do pairing process.
- 2) When using two or more transmission systems at the NVR or Control room – if there is no cross-talk between the two systems then there is no need to perform the pairing process.

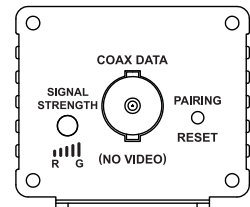
### EoC Transmission System Network Group Pairing Instructions

#### Step 1: Setup EoC Transmission System

- ◆ Connect all the coaxial, cat. 5e cables between transceivers, setup cameras and NVR then power supplied to the system that one of the application diagrams.

#### Step 2: Host/Master Side Leaving Current Network Group

- ◆ On the transceiver at NVR side, using a straightened paper-clip push the small button for **5 ~ 8 seconds**, the LED color will turn **AMBER** blink once then turn **OFF**.



#### Step 3: Host/Master Side Create an New Network Group

- ◆ On the transceiver at NVR side, using a straightened paper-clip to push the small button for **1 ~ 3 seconds**, the LED color will turn **RED** and start blinking.

#### Step 4: Slave Side Transceiver Leaving Current Network Group

- ◆ On the transceiver at the Remote side (close to IP camera/device), using a straightened paper-clip to push the small button for **5 ~ 8 seconds**, the LED color will turn **AMBER** blink once then turn **OFF**.

#### Step 5: Slave Side Transceiver Joining New Network Group

- ◆ EOC transceivers at Remote side (close to IP camera/device), using a straightened paper-clip to push the small button for **1 ~ 3 seconds**, the LED color will begin blinking **RED**. The transceivers will find each other and starting the transmission.

### In Pairing Process Notice

- 1) In joining or leaving process, if you are not sure that joining or leaving has been successful, you can **RESET** the transceiver (press the push button 12 to 30 seconds) , and repeat above steps.
- 2) After re-applying power or **RESETING** the transceiver, please wait for the color LED to start **blinking Amber** once then turn **GREEN**, this means the power on reset finished and you can now start the pairing process.
- 3) If the transceiver is in **LEAVE** to **JOIN** state (color LED blinking **RED**), it must join new network group within **2 minutes** or it will revert to a **LEAVE** state again.

