IP Extender Over Coax
POC-4T48/56V, POC-1T12V and POC-1R48/56V

GEM# POC-4T 48/56V

GEM# POC-1T12V

Description:

Ethernet signal and power transmitter POC-4T48/56V and POC-1T12V can transmit high speed Ethernet signal and power via coaxial cable. Its maximum transmission distance for Ethernet is 2000 meters and 500 meters for power with max 48V 1.25A power supply. By adopting advanced OFDM technology to process the data, POC-4T48/56V and POC-1T12V has high capacity and anti-jamming in real operating environment and its physical broadband can process up to 200Mbps. With built-in multi-stage surge and lightning protection design, POC-4T48/56V and POC-1T12V avoids devices from lightning damage. This product can be widely used in fields such as network expanding system, network security system, network information distribution system, network upgrading & expanding system, railway and urban transportation, metalurgy and mining, field operation, etc.

Features:

- Support IEEE802.3af POE and 4-CH Ethernet 10/100Mbps signal up to 100m.
- Power supply function over COAX (48VDC) and 12VDC.
- Using coax cable transmits Ethernet signal an power. Maximum transmission distance of Ethernet can be 2000 meters and 500 meters of power (match POC-4T48/56V and POC-1T12V with POC-1R48/56V) with max 48V 1.25A and 12V2A power supply.
- Complies with IEEE 802.3, IEEE 802.3u and IEEE 802.3X standards.
- With high speed modem technology, the physical broadband can transmit up to 200Mps.
- Built-in multi-stage surge and lightning protection design.
- Support Auto MDI/MDIX Function.
- Low power consumption, automatic error-correction coding technology.
- Easy installation, good presentation, fast nework connection.

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GEM# POC-4T 48/56V

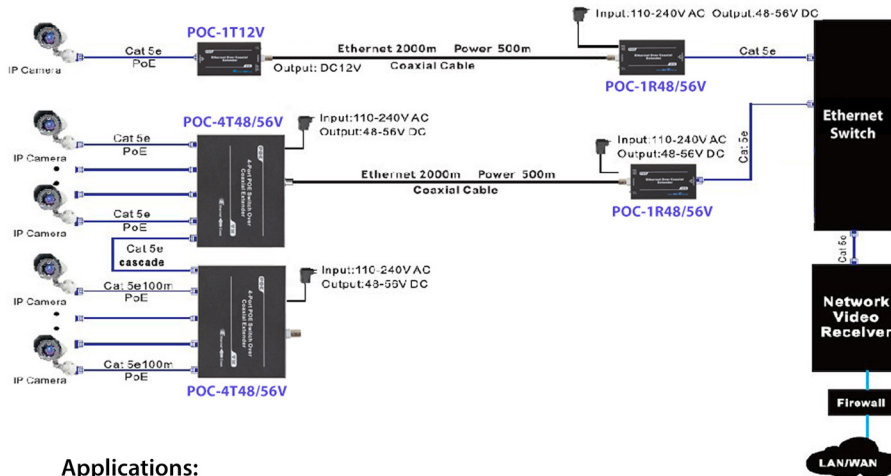**GEM# POC-1T12V**

Specifications for POC-4T48/56 and POC-1T12V :

Description		
Model		**POC-4T48/56 and POC-1T12V**
Power supply	Power	Output: 48VDC/1.25A and 12VDC/2A (max)
	No Load Consumption	1.8W(max)
	Offer Remote Current	48VDC/1.25A and 12VDC/2A (max)
RJ45 interface and specification	Ethernet Interface	RJ45 Interface
	transmitting distance	100m（max）
	Standards	IEEE 802.3, IEEE 802.3u and IEEE 802.3X
	Physical speed	200Mbps(max)
Coaxial cable interface and specification	Coaxial cable interface	BNC connector
	characteristic impedance	75 Ohm
	Maximum Distance	2000m
Transmission rates	Distance	Broadband
	300m	91Mbps
	500m	86Mbps
	800m	82Mbps
	2000m	35Mbps
State Indicators	Green Light	Coaxial cable connecting indicator
	Red Light	Internet signal running indicator
Lightning protection grade	transmission ports	Differential Mode：2KV Common Mode:4KV Execution standard： IEC61000-4-5
	Device	1a contact discharge 3 grade 1b aerial discharge 3 grade Executive Standard： IEC61000-4-2
Working Circumstance	Working Temperature	0～55℃
	Storing Temperature	-25℃~85℃
	Dampness（no condensing）	0～95%
Mechanical	Size	130*100*30mm / 103*100*30mm
	Housing material	Aluminum
	Color	Black
	Weight	400g / 145g

IP Extender Over Coax

Typical Installation Setup:

Applications:

- Security Monitoring System
- Multimedia Network Teaching System
- Medical Monitoring Display System
- Industrial Automation Control System
- Banking, Securities, Financial Information Display System
- Remote Network Server Monitoring
- Department Store Security
- Casino Security
- Hospitals, Airports and Banks
- School Campuses

- IP Cameras based on coaxial cable or telephone wire
- NVR based on coaxial cable or telephone wire
- Video interphone based on coaxial cable or telephone wire
- Intelligent home POS, broadband intelligent power grid etc.
- Industrial fields such as railway, telecommunication, oil prospecting, coal mining etc.

IP Extender Over Coax
POC-1R48/56V

GEM# POC-1R48/56V

Description:

Ethernet signal and power transmitter POC-1R48/56V can transmit high speed Ethernet signal and power via coaxial cable. Its maximum transmission distance for Ethernet is 2000 meters and 500 meters for power. By adopting advanced OFDM technology to process the data, POC-1R48/56V has high capacity and anti-jamming in real operating environment and its physical broadband can transmit up to 200Mbps. With built-in multi-stage surge and lightning protection design, POC-1R48/56V avoids devices from lightning damage. This product can be widely used in fields such as network expanding system, network security system, network information distribution system, network upgrading & expanding system, railway and urban transportation, metalurgy and mining, field operations, etc.

Features:

- Single Channel Ethernet Signal and Power Receiver.
- Using coax cable transmits Ethernet signal an power. Maximum transmission distance of Ethernet can be 2000 meters and 500 meters of power with max 12V2A power supply.
- Complies with IEEE 802.3, 10BASE-T and IEEE 802.3u, 100BASE-TX.
- With high speed modem technology, the physical broadband can transmit up to 200Mps.
- Built-in multi-stage surge and lightning protection design.
- Low power consumption, automatic error-correction coding technology.
- Easy installation, good presentation, fast network connection.

GEM ELECTRONICS

IP Extender Over Coax

GEM# POC-1R48/56V

Specifications for POC-1R48/56V:

Description		Ethernet & power coaxial transmitter
Model		POC-1R48/56V
Power supply	Power adapter	Input:100-240VAC Output:48VDC/1.5A
	No Load Consumption	1.8W(max)
RJ45 interface and specification	Ethernet Interface	RJ45 Interface
	transmitting distance	100m （max）
	Standards	IEEE802.3 10BASE-T， IEEE802.3u 100BASE-TX
	Physical speed	200Mbps(max)
Coaxial cable interface and specification	Coaxial cable interface	BNC connector
	characteristic impedance	75 Ohm
	Maximum Distance	2000m
Transmission rates	Distance	Broadband
	300m	91Mbps
	500m	86Mbps
	800m	82Mbps
	2000m	35Mbps
State Indicators	Green Light	Coaxial cable connecting indicator
	Red Light	Internet signal running indicator
Lightning protection grade	transmission ports	Differential Mode：2KV Common Mode:4KV Execution standard： IEC61000-4-5
	Device	1a contact discharge 3 grade 1b aerial discharge 3 grade Executive Standard: IEC61000-4-2
Working Circumstance	Working Temperature	0～55℃
	Storing Temperature	-25℃~85℃
	Dampness（no condensing）	0～95%
Mechanical	Size	103*54*26mm
	Housing material	Aluminum
	Color	Black
	Weight	145g