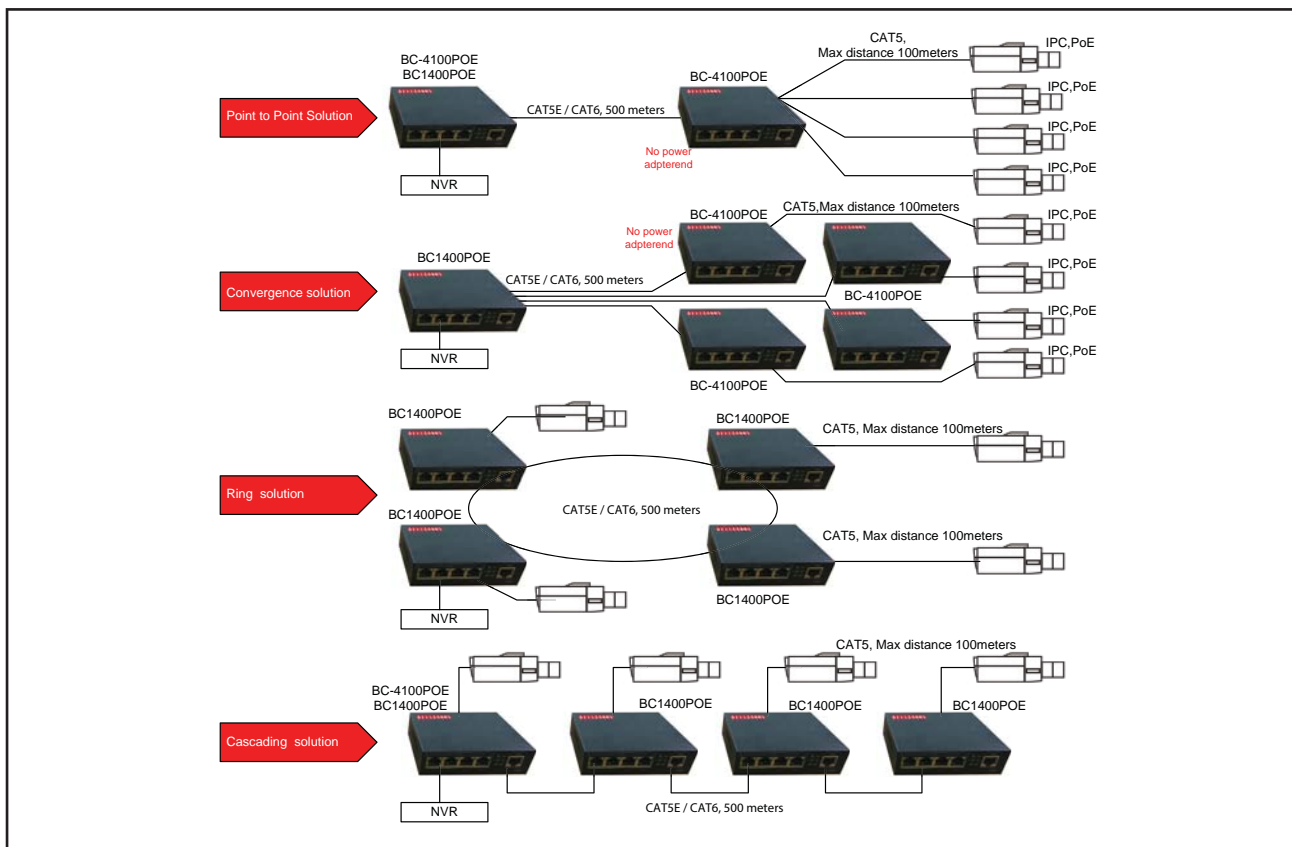## Overview

BC-1400POE / BC-4100POE is a Ethernet extender transmitter over UTP cable. One BC-1400POE / BC-4100POE at the Network end can support one remote or multi remote and connected devices. This BC-1400POE / BC-4100POE can transmit over telephone line, Ethernet cable, Twisted pairs. It is provide with excellent lightening protection and anti-interference capacity. In the real environment, the max network speed could read 60Mbps. With the Ethernet extending to 750meters (speed not under 15Mbps), it has enlarge the Ethernet network scope. It can use Cat5e or Cat6 cable for cutting down project cost in a high limit.

Support POE function, equipping 1 port POE for the POE standard IP camera, wireless AP, IP phone and other PD device. Can support IEEE802.3af standard 15.4W output, option for IEEE802.3at standard 25.5W output

Features

- Modulation frequency: 2MHz - 28MHz
- Modulation method: OFDM
- Encryption: AES128-bit encryption
- Networking: One Master and 7 Slaves
- Protocol IEEE802.3/u, 10Base-T, 100Base-TX, IEEE802.1Q VLAN, IEEE802.3af/at
- Support Auto-sensation of MDI/MDIX at Ethernet port, compatible with NIC, switch and HUB etc.
- Support up to 1522Bytes data packet
- Support Store and forward working mode; backpressure on Half-Duplex and flow control Full-Duplex.
- Power supply range: DC 12V-48V
- Working temperature: -20 – 70C
-Support Ethernet ESD protection and EFT
- POE (15.4W) and POE+ (25.5W) supported both depends on the power using

Specification

Parameter	Specification
Design grade	Sub-industrial design
Rate	10/100Mbps
Protocol	IEEE802.3/u, 10Base-T, 100Base-TX, IEEE802.1Q VLAN, IEEE802.3af/at
Transmission distance	LAN port:Cat5,100meter UTP port:Cat5,750meter(TCP/IP not under 15Mbps),500meter-40Mbps,100meter-60Mbps
Port(BC-1400POE)	1-LAN port: connected to STP/UTP cat5 4-UTP port:RJ45
Port(BC-4100POE)	4-LAN port: connected to STP/UTP cat5 1 -UTP port:RJ45
Flow control	Duplex: flow control Half Duplex: Backpressure
Error rate	<109
MTBF	50,0000hours
LED indicator	PWR- power, LAN-link/Act, UTP- UTP cable connection, MASTER- master device monitoring
Power supply	Range:12~48VDC(POC function 56V)
Power	<6W(without POE)
Storage humidity	5%~90%Non-condensation
Working humidity	5%~90%Non-condensation
Working temperature	-20~70C
Storage temperature	-40~85C

Certification
EMI FCC Part 15, CISPR (EN55022) class A
EMC FCC,CE

EMS
EN61000-4-2 (ESD), Level 4
EN61000-4-3 (RS), Level 3
EN61000-4-4 (EFT), Level 4
EN61000-4-5 (Surge), Level 4
EN61000-4-6 (CS), Level 3
EN61000-4-8, Level 5
EN61000-4-11

Vibration IEC 60068-2-27
Free fall IEC 60068-2-32
Vibration IEC 60068-2-6
Green   RoHS CRoHS WEEE

Order Part No.   Product Descriptions

BC-1400POE	Ethernet transmission over wire, 1Ethernet port(PoE 30W) + 4 UTP port, without power adaptor, support PoE function
BC-4100POE	Ethernet transmission over wire, 4Ethernet port(PoE) +1 UTP port, without power adaptor, support PoE function