CTR1000 Gigabit over coax cable transceiver

CTR1000 is a Gigabit Ethernet over coax (EoC) cable transceiver based on IEEE 802.3bp Gigabit Coax Ethernet technology. With built-in high performance 1000Base-T1 and 100Base-T1 Ethernet PHY transceiver, it provides bidirectional gigabit access over up to 100 meter coax cable.
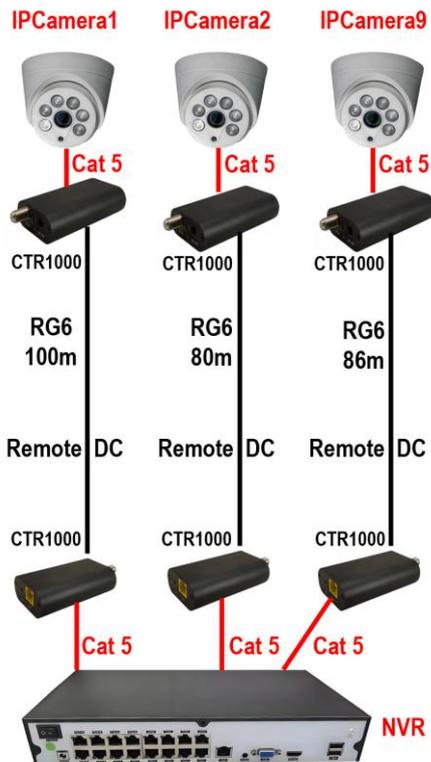
There should be 2pcs CTR1000 EoC transceivers at the both sides of coax cable: one acts as Master Unit and the other as Slave Unit automatically. With the power passing capability of coax cable, CTR1000 can be powered by the local 12V DC power adapter, or remotely powered by the DC from coax cable RF port.

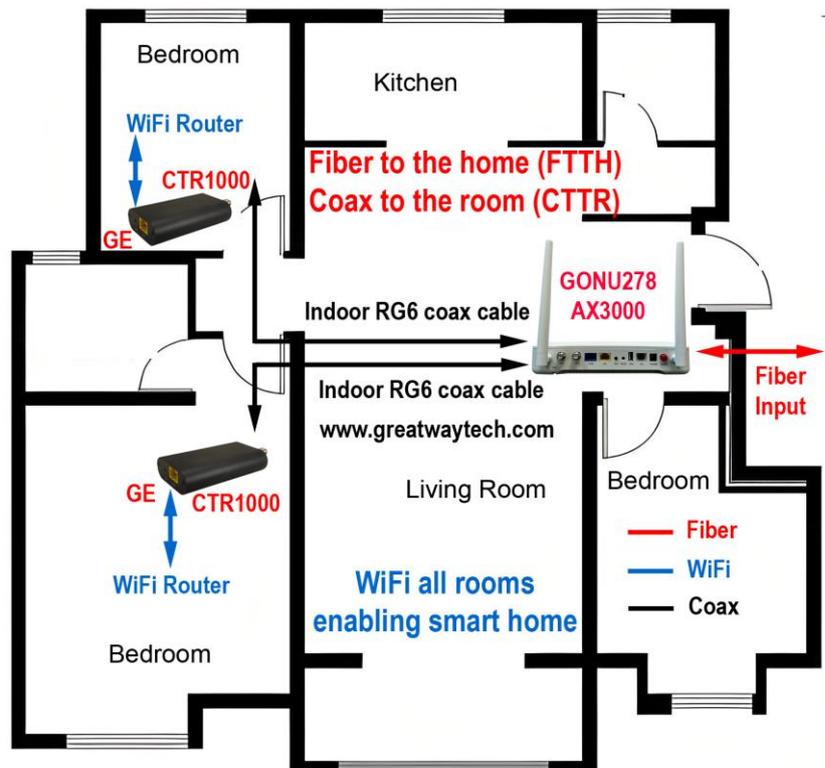CTR1000 can be used in IP camera over coax cable with 12V remote DC power.

CTR1000 can be used in FTTH and Coax To The Room (CTTR) system: GPON ONU to the Garage or Living Room, one gigabit Ethernet port over existing coax cable to the main room, extending in-home WiFi coverage.

Applications:

IP Camera over RG6   **FTTH and CTTR for WiFi all rooms**

Features

- Compact metal housing (plastic housing optional)
- Bidirectional gigabit Ethernet over coax cable
- 100/1000Mbps adaptive Ethernet port
- Master-slave adaptive
- Supports local DC powering or remote powering via coax cable
- Coax Cable Transmission distance exceeds 100 meters

Specification

RF Interface	
Connector	One 75Ohm Female F connector
Standard	IEEE 802.3bp 1000Base-T1
Maximum Output Level	>49±0.5dBuv/8MHz@450MHz
Minimum Receiving Level	<40±0.5dBuv/8MHz@450MHz@BER10-6
Return Loss	>16dB@88-650MHz
Ethernet Interface	
Standard	IEEE 802.3, IEEE 802.3au, IEEE 802.3x
LAN	100/1000Mbps Auto-Adaptive
LED Indicator	
PWR LED	Green when DC power is available
LAN LED	Green when network is connected
T1 LED	Green when T1 is connected
Hardware	
Power Supply	12V 1A (Local and remote powering) 12V 3A option for powering external IP Camera
Power Consumption	≤ 3W (Full Load)
Dimension	88mm(L) ×50mm(W) ×22mm(H)
Operation Condition	0℃～45℃, 10%-90% non-condensing
Storage Condition	-20℃～65℃, 5%-90% non-condensing

Ordering Information

CTR1000X (1*GE interface, 1 GPON interface, plastic casing, 12V DC adapter)

X(Power Supply): None_One EoC transceiver without 12V DC adapter, Supporting RF port DC power

              R_1pcs 12V 1A power adapter for master unit and remote unit powered from the cable.