

## LongRange PoE++ (bt) IP Ethernet over Coax Transceiver

### Product Features

- **World's First LongRange (1,050 feet. / 300Meter) PoE++ (bt) power pass-through IP Ethernet over Coax Transceiver!**
- **Support 70VDC 100W AC/DC adapter for the LongRange PoE++ (bt) power pass-through feature**
- **Small form factor for Limited Space installation site**
- **Long range Ethernet data extension over Coax**  
Typical Data transfer range. 1,050 feet. (300 meter)
- **Enhanced Crosstalk Free feature for multiple installation (One power supply for MDU installation)**
- **Power DC Jack Polarity Free feature, which does not care Power installation Polarity**
- **Automatic Quality of Service (QoS) features for seamless network streaming**
- **IEEE 802.3 af/at/bt Compliant PoE for PoE Powered Device(PD), Wi-Fi AP, IP Intercom, IP camera, VoIP**
- **Easy configuration and No IP address & network setup required**



### Product Description

#### Beyond the 1,050 ft. (300 Meter) PoE Power coverage

The Hi-Coax™, model C4L6400-EoC-BT is the World's First Long Range PoE++ (bt) IP Ethernet over Coax transceiver. It support up to 1,050 Feet (300Meter) PoE++ (bt) power pass-through for High Power IP Intercom, IP Camera, PoE LED, PA Speaker, Digital Signage, Wi-Fi AP and etc. application.

#### Small Form Factor

C4L6400-EoC-BT have a small size form factor (40 x 42 x 76 mm, H x W x L) for the small and narrow area installation site. Its small form factor helps for the most camera housings.

#### Long Distance Data Transfer Coverage

C4L6400-EoC-BT support up to 1500 meter distance full-duplex data transfer coverage. It could re-use the legacy Coax cable in Home, Residential Building and large building. It transports the High Definition content, Mass-Storage information and Data Streaming service to the remote installation sites without any delay.

#### Polarity and Crosstalk Free features

C4L6400-EoC-BT support the Power DCJack Polarity Free features for the installation fields. This features help the simple and easy installation for the complex installation situation.

Also, it support Crosstalk Free features for the MDU installation fields.

#### 1 Master to Multi Slave network topology

C4L6400 Series product support the 1 Master to Multi slave network topology. Its network topology could support various network topology (Star, BUS, Ring, Mesh and etc.). Also, it reduce the installation costs dramatically.

#### Ready for Multi-Dwelling Unit (MDU) installation

C4L6400-EoC-BT have the robust immunity for cross-talk problem. Also, it support the auto-negotiation data throughput features for Multi-Dwelling Unit (MDU) installation site. It helps to prevent the network conflict and critical network errors.

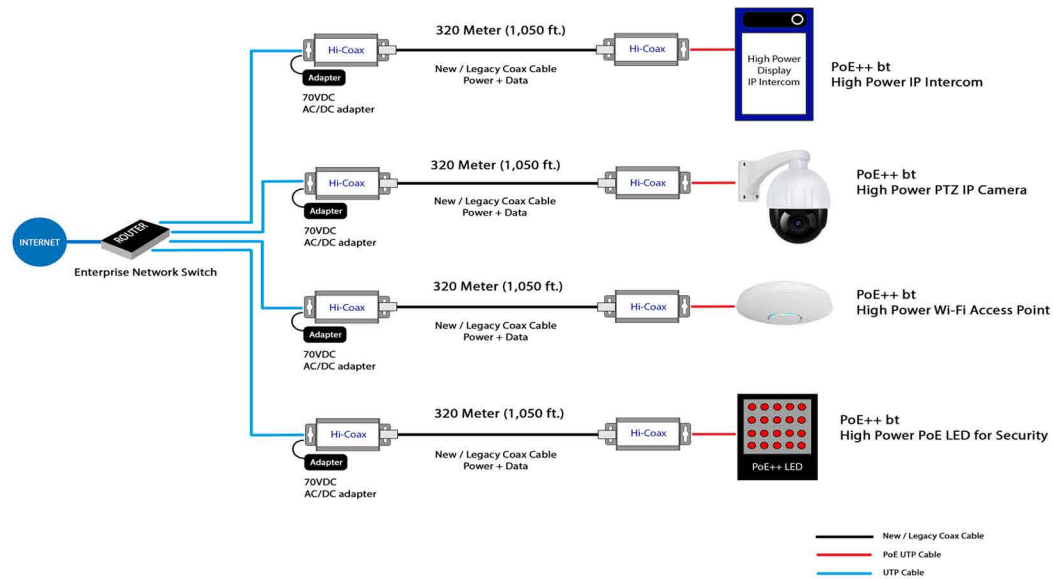
#### IEEE 802.3 af/at/bt 90W PoE++ Type4

C4L6400-EoC-BT support the IEEE 802.3 af/at/bt 90Watts PoE++ feature for IP Intercom, IP Camera, PoE LED, PA Speaker, Digital Signage, Wi-Fi AP and etc. It reduce the wiring cost for power supply at the remote installation sites.

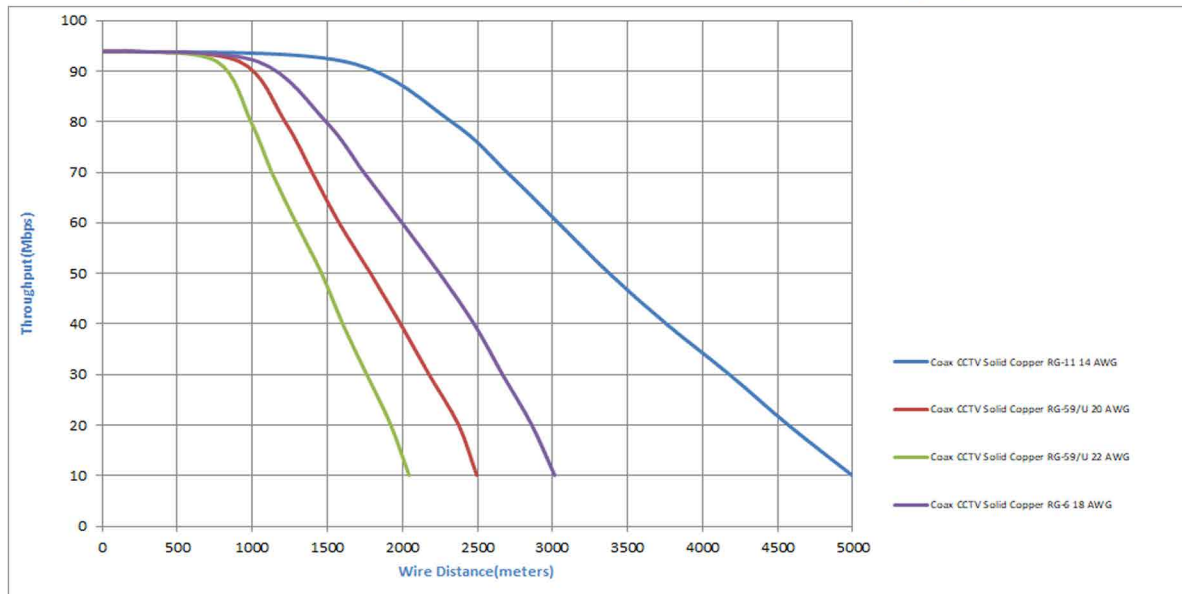


|                                    |                                                                                                                                                                                  |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                          | Ethernet Specification IEEE 802.3, IEEE 802.3u, IEEE 802.3x, Auto MDI/X                                                                                                          |
| Protocols                          | TDMA & CSMA/CA                                                                                                                                                                   |
| Transmission Speeds                | Ethernet : 10 / 100 Mbps<br>Extended Coax : 200 Mbps                                                                                                                             |
| Modulation                         | Modulation : OFDM – 1024/256/64-QAM,<br>QPSK, BPSK, ROBO                                                                                                                         |
| Frequency Band                     | 1.8 ~ 30 MHz                                                                                                                                                                     |
| Security                           | 128 bit AES Encryption                                                                                                                                                           |
| Power Consumption                  | 2.7 Watts                                                                                                                                                                        |
| AC to DC Power Supply              | Input AC : 100 ~ 240 VAC, 50 ~ 60 Hz<br>5V to 70VDC / 1A ~ 1.6A (For PoE Function, please use 48V 0.83A Adapter at least.)                                                       |
| Ethernet Interface                 | - Connector Type : RJ45<br>- Speed : 10/100 Base T, half/full duplex, auto-negotiation                                                                                           |
| PoE Standard                       | IEEE 802.3 af/at/bt PoE++ Type4, 90Watts                                                                                                                                         |
| Extended Port Interface            | - Connector Type : BNC, RG-59/U or Similar<br>- Impedance : 50 to 100 Ohm<br>- Transmit Coverage : 5,000 feet (1,500m)                                                           |
| IGMP                               | - Support IGMP managed multicast sessions<br>- IGMP snooping with multicast to multiple unicast support<br>- IGMP/MLD Address Filtering                                          |
| LED Indication                     | - Power : BLUE – Power On<br>- BNC : Green – Link On<br>- PoE : Green – Link On / PoE Connected : White                                                                          |
| Mechanical Dimension               | 40 x 42 x 76 mm, 1.57 x 1.65 x 2.99 in ( H x W x L )                                                                                                                             |
| Weight                             | 120 g (4.2 oz)                                                                                                                                                                   |
| Material                           | Aluminum Extruded                                                                                                                                                                |
| Temperature                        | - Operating Temperature : -10°C ~ +50°C ( +14°F ~ +122°F ), i-Temp Ver. : -40°C ~ +80°C<br>- Storage Temperature : -30°C ~ +70°C ( -22°F ~ +158°F ), i-Temp Ver. : -40°C ~ +80°C |
| Humidity                           | 10 ~ 90 % Humidity ( non-condensing )                                                                                                                                            |
| Certifications                     | CE Class A, FCC                                                                                                                                                                  |
| Polarity & Crosstalk Free Features | Power DCJack Polarity and Crosstalk Free features                                                                                                                                |

### C4L6400-EoC-BT Typical Application



### C4L6400-EoC-BT Wire Distance & Data Throughput Chart



### C4L6400-EoC-BT Power Distance Chart @48VDC

