Overview

The CL114M is an Industrial Ethernet Over 4 Coaxial (802.af) Cables Extender. It provides one 10/100M electrical RJ45 ports (PoE) for connecting to the main Ethernet network in the operation center and 4 BNC connectors for connecting to the CL114S devices at the remote location(s). It is designed to transmit/receive both TX Ethernet data and RX Ethernet data over 2 Km coaxial cables. The CL114M meets the various point-to-point and point-to-multipoint industrial applications and provide a wide range of industrial Ethernet network communication solution, including linking multiple remote traffic intersections to the Traffic Operation Center.

With the plug and play feature, the CL114M can be used immediately without the need of configuration and is also compliant with all kinds of IP network protocols. If there is a network disconnection, it can be re-connected in less than 5 seconds.


Features

- Local Unit (Master)
- 1 x 10/100M TX Ethernet Port
- 4 x 100M BNC Ports
- Supports 802.3af/at PoE PSE
- 4 x BNC (44 ~ 56 VDC) Power Input and Ethernet Data
- Supports Power Over Ethernet PSE, PoE Injector
- Eliminates Power Cabling via Power Over Coaxial
- Supports PoE Power up to 25 watts
- Auto Detects Remote Powered Device
- Temperature: NEMA

Applications

- ITS Traffic Applications
- CCTV IP Cameras Monitor
- Internet Of Thing
- SCADA Networks
- Metro Networks
- Gas & Oil Fields Monitoring Applications
- Railroad Networks
- Military Applications
- Data Acquisition Applications

Order Information

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<td>CL114M</td>
<td>Coaxial Ethernet Media Converter (Master Unit), 1 x 100M BNC, 2 Km, 1 x 10/100M-TX RJ45, +44 ~ 56 VDC</td>
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### Technical Specifications

#### System:
- **Network Standards**: IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-T, IEEE 802.3at/af PoE PSE
- **LED Indicators**: PWR, LINK, ACT, POE

#### Environment:
- **Operating**: -34°C to +74°C
- **Storage**: -40°C to +85°C
- **Humidity**: 98% Non-Condensing

#### Physical:
- **Dimension**: 4" x 3" x 1.5"
- **Power Requirement**: 44 ~ 56 VDC @ 0.5 Amp

#### TX Interface:
- **Port**: 1 RJ45
- **Data Rate**: 10/100 Mbps
- **TX Port**: Auto-MDI/MDIX
- **Transmission Mode**: Half/Full Duplex
- **Frame Size**: 1522 Bytes Max
- **PoE Output Power**: 56 VDC @ 600 mA Max
- **Distance**: 100 Meters @Cat5/Cat6

#### Coaxial Interface:
- **Port**: 4 x 75 Ohms BNC
- **Power Input**: 37 ~ 56 VDC
- **Data Rate**: 93 Mbps Max (Upload/Download)
- **Distance**: 600 Meters with PoE

### Application

#### 10/100M TX RJ45

**Up to 2 Km Coaxial Cable**
- **Point-To-Point**
- **Point-To-Multipoint**

**Operation Center**

**CL114S**

**Up to 600 Meters Coaxial Cable**

**NO POWER CABLE**

**CL114M**

**10/100M TX RJ45**

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