C4Line C4L6400-2W-U-D Transceiver Datasheet

Product Features

- USB-Powered Power Supply - No extra AC/DC Adapter and No AC outlet needed
- Using legacy analog UTP or 2Wire cables for PC, Notebook, VoiP and IP network devices installation sites.
- One master extender can support two slave extenders without any splitter
- Anti-Vibration Terminal Block feature for Harsh Installation Sites
- Extremely cost saving and time for PC, Notebook, VoiP and IP device installation using legacy analog 2Wire or UTP cables via 2Wire connector for Multipoint installation
- Long Range Ethernet data extension over Coax – Max. 1,310 feet (400 Meter)
- High data rate – 94Mbps UDP Data throughput
- Easy Configuration, No IP address and network setup required
- Calculated MTBF = 340,000 hours
- LED indicator for installation – Power, Link and Data traffic status
- Compact size product - 1.57 x 1.57 x 2.95 in., 40 x 40 x 75 mm (HxWxL)
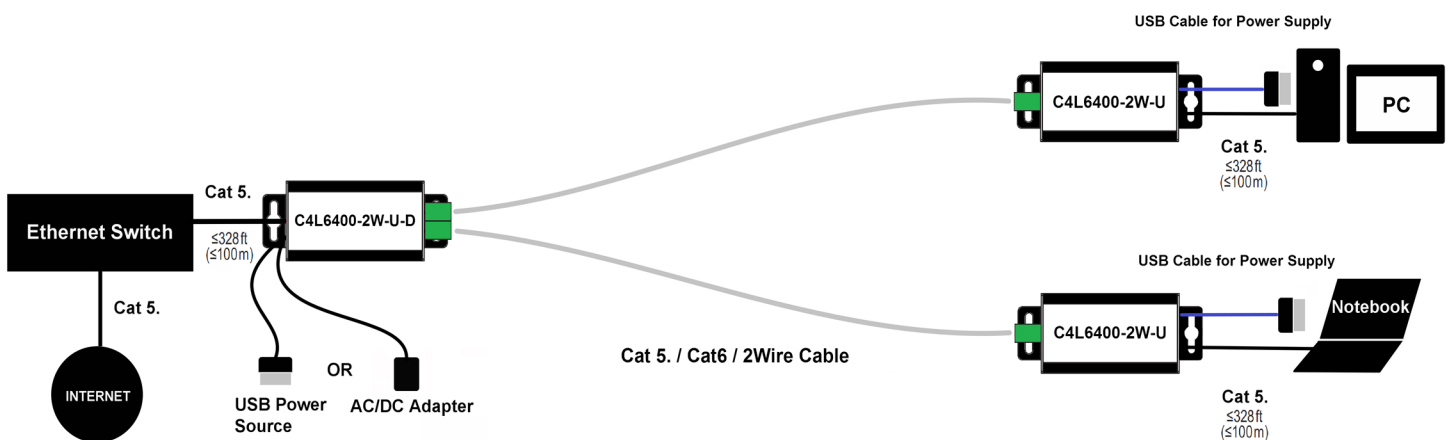
Product Overview

The C4L6400-2W-U-D, USB Powered IP Ethernet over Dual Port 2Wire extender is the new generation device for installation PC, Notebook, Industrial PC, POS and IP device.

It provides full-duplex high speed Ethernet data signal over 2Wire cable. It extends data signal 10/100 Base T up to 1,310 feet (400 Meter).

Its hardware and software resources are supplied by C4L6400-2W-U-D's robust and unique Ethernet extension technology. C4L6400-2W-U-D, technology provides robust immunity against 2Wire cable noise, vibration and automatically negotiation data throughput.

Product Application

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Product Description

The C4L6400-2W-U-D could support USB Powered function for the power supply. So that no extra power adapter is required and no AC outlet is needed to get the device power.

The C4L6400-2W-U-D provides the multiple PC, Notebook, VoiP and IP devices installation with 2 port of terminal block connector. Also, it support daisy chained network topology for the various network installation. It is extremely cost saving solution for PC, Notebook, VoiP and IP devices network installation. Because other brand's Ethernet over 2Wire extenders support just 1:1 connection.
(It means installation structure for 2Wire cable per one master and one slave.)

The C4L6400-2W-U-D could support the Anti-Vibration Terminal Block feature for Harsh Installation Sites. It protect the lack of connection loss and broken for the stable network communication.

The C4L6400-2W-U-D solution provides Plug & Play configuration, No IP address and network setup required for installation.
Its LED indicator provides Power, Link and Data traffic status.
It is compact size extender for easy installation in network device housings.

Technical Specification

Ethernet Interface
- Connector Type : RJ45
- Speed : 10/100 Base T, half/full duplex,
        auto-negotiation

2Wire Terminal Block Interface
- Number of Port : 2 Port
- Cable Type : 2Wire, Cat 5e., Cat 6. or Similar
- Impedance : 25Ω to 100Ω
- Transmit Coverage : Max.1,310ft.(400M)

Transmission Method
- Access Method : CSMA/CA and TDMA
- Modulation Method : Windowed OFDM
- Frequency band : 1.8MHz to 30MHz

Environmental
- Operating Temperature : 14°F to 122°F
                -10°C to +50°C
- Storage Temperature   : -22°F to 158°F
                -30°C to +70°C

LED Indicators
- Power : Blue – Power ON
- 2Wire : Green – Link ON
- ETH : Green – Link ON

Power
- Powered by USB Cable
- Input AC : 100 ~ 240VAC , 50~60 Hz
- Output DC : 5VDC / 500mA

Mechanical
- 1.57x1.57x2.95in., 40x40x75mm (HxWxL)
- Weight : 4.2oz (120g)
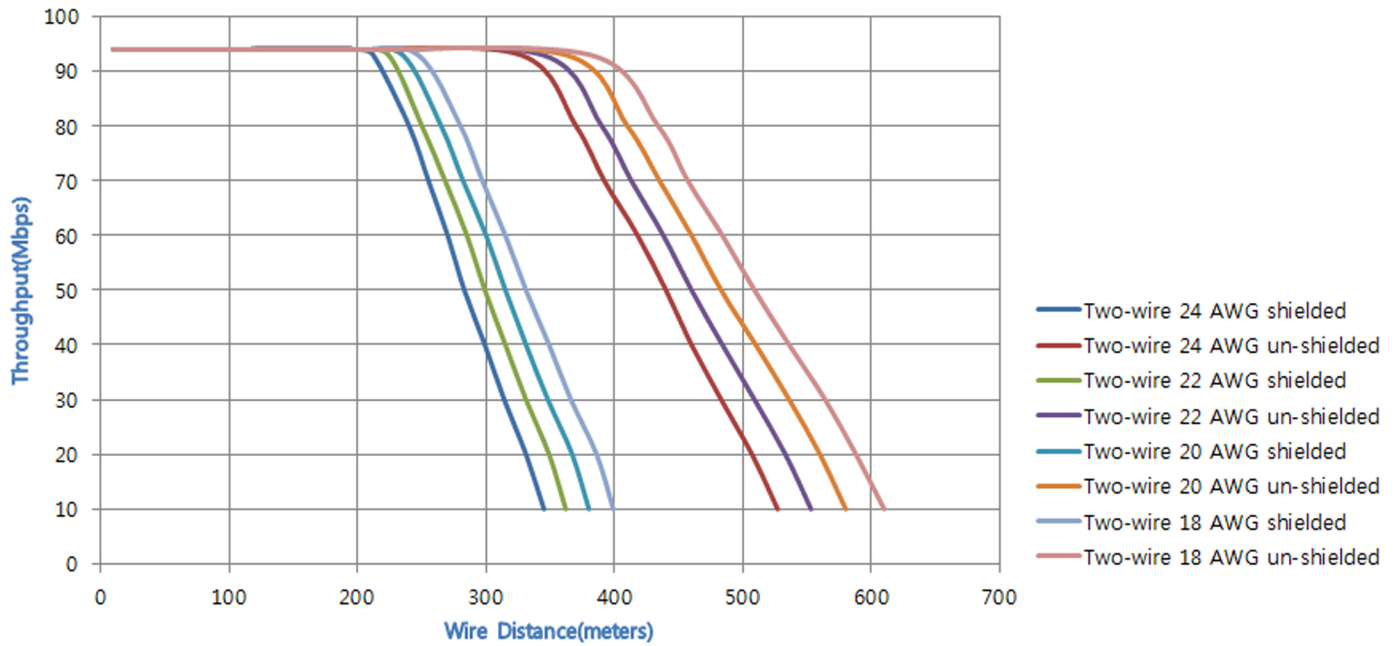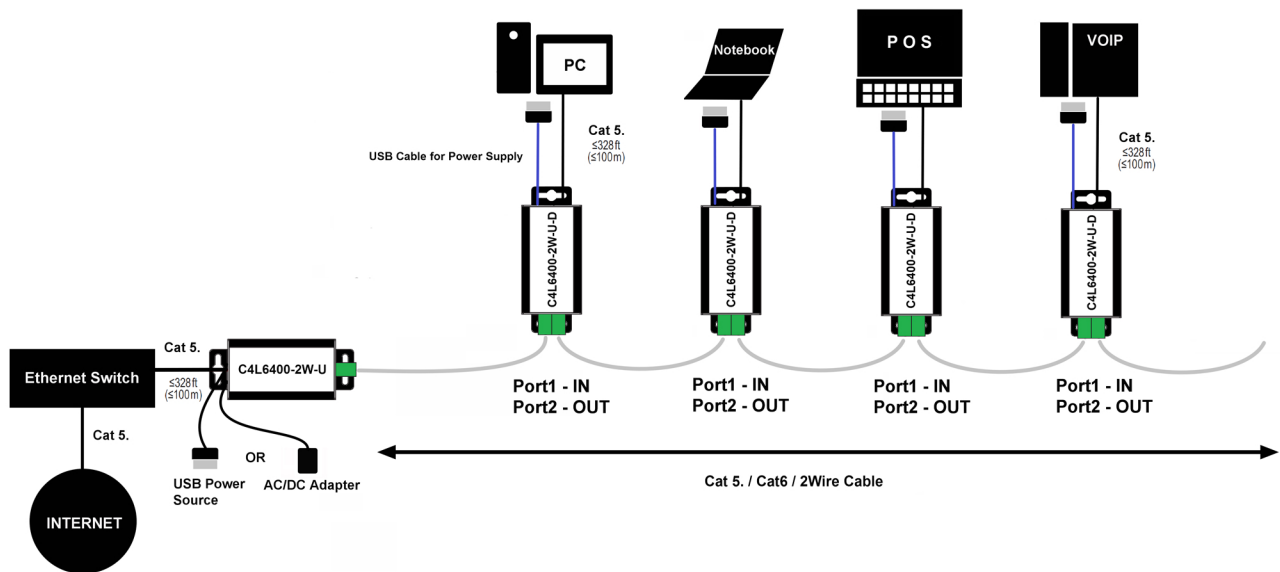- Material : Extruded Aluminum

Regulatory
CE ☒ ✓RoHS

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Data Throughput Graph

Throughput(Mbps) vs Wire Distance(meters)

Legend:
- Two-wire 24 AWG shielded
- Two-wire 24 AWG un-shielded
- Two-wire 22 AWG shielded
- Two-wire 22 AWG un-shielded
- Two-wire 20 AWG shielded
- Two-wire 20 AWG un-shielded
- Two-wire 18 AWG shielded
- Two-wire 18 AWG un-shielded

C4L6400-2W-U-D Daisy Chained Application

Cat 5. / Cat6 / 2Wire Cable