

# VX-701LRP-KIT [VX-701-CO & VX-701-RT]

*Industrial Long Reach PoE Ethernet Extenders*

## Description

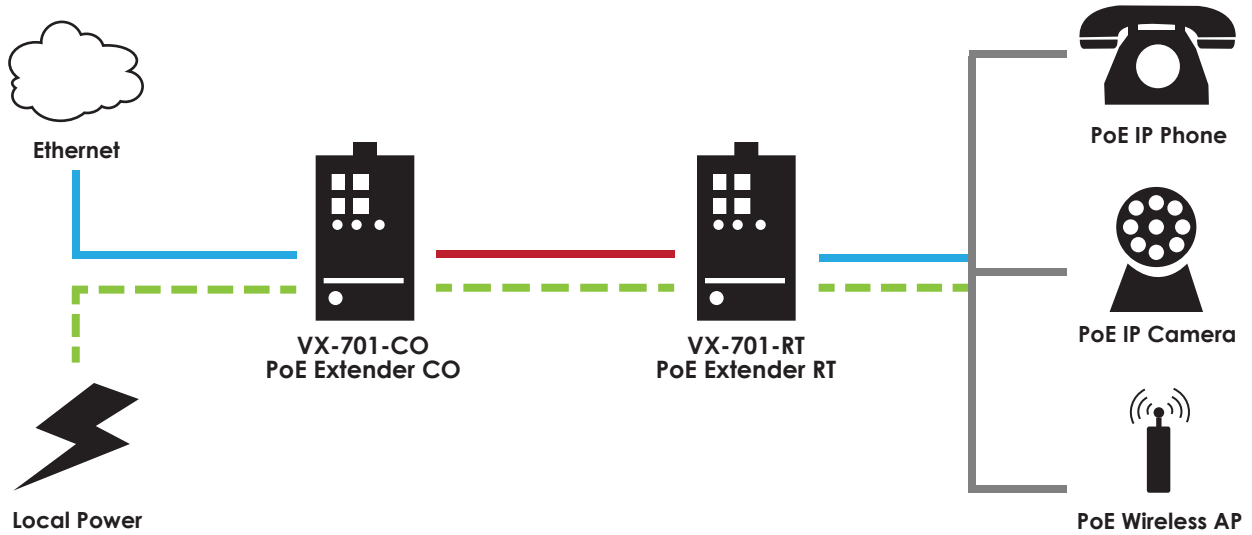
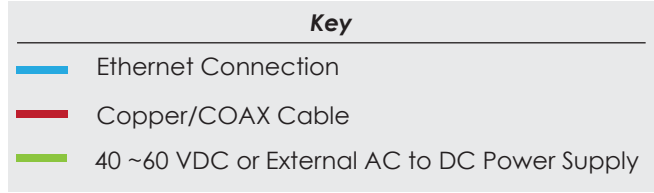


Versa Technology's VX-701LRP-KIT Long Reach PoE Extenders are designed to extend the reach of Data and IEEE 802.3at Power over Ethernet beyond its reach of 100m for the network infrastructure. The solution works in pairs for point to point connectivity. The master unit (VX-701-CO) at the central site can transmit data and power over a single pair of telephone grade UTP wires up to 1,200m or Coaxial cable up to 1,800m. On the receiving end is VX-701-RT Long Reach PoE Extender with 4 PoE (PSE) ports (CPE). Without the need for local power supply, each VX-701-RT is equip with four 10/100Base-TX IEEE 802.3at PoE Ports for total power budget of 30W that can support any remote IEEE 802.3at/af powered device (PD). It enables centralized management of power supply from a single location for easy, efficient and cost-effective installation. The VX-701-RT can provide 30W of PoE power to each ethernet interface if local power is available. Versa's Long Reach PoE Extenders are an ideal PoE extension solution for service providers to deploy networking applications in public areas that require Wireless AP, IP Phones and IP Cameras.

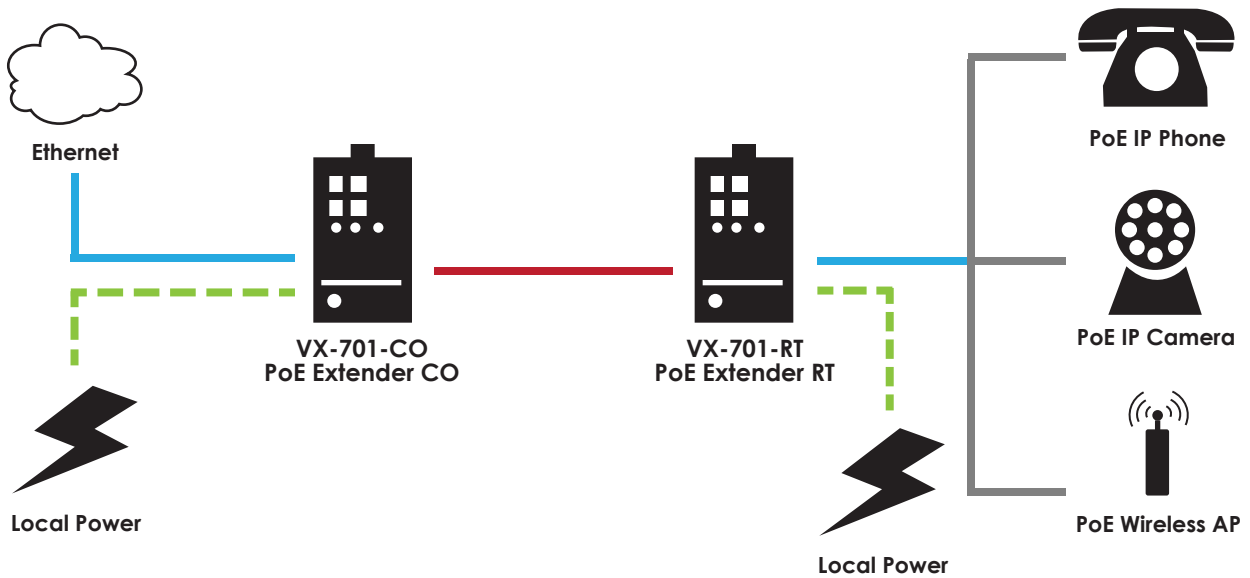
## Features

- Complies to IEEE 802.3at PoE
- Industrial-Grade Extenders for applications in harsh environments
- Simultaneous transmission of Ethernet data and PoE Power over UTP wire or coaxial cable
- Centralized management of power supply
- Eliminated the need for local power supply at remote sites
- Easy cabling for quick installation
- Long transmission distance up to 1200m for UTP wire or 1800m for coaxial cable
- Quick deployment and easy maintenance
- Flexible and efficient power management
- Automatically switch between VDSL2 Profile 30a and 17a to utilize bandwidth performance
- Dip Switch provides 30W PoE power to ethernet interface if local power is available

# Application



**Remote Power Enable**



**Remote Power Disable**

# Specifications



## System Information

### Hardware Interface

- Terminal Block for Copper Port
- BNC Female for Coaxial Port
- 4 x RJ-45 10/100Base-TX IEEE 802.3at PoE Port

### 3-Position DIP Switch

- Selectable target band plan (Asymmetric or Symmetric)
- Selectable target SNR margin (6dB or 9dB)
- Selectable Remote Power (ON) or Local Power (OFF)

### LED Indicators

- **Active:** System Status
- **LPWR/RPWR:** Local Power/Remote Power
- **POE:** POE Port Status
- **Available POE Output (Watts):** 5/15/30
- **Line Speed (Mbps):** Link/20/40/60/80/100

### Power Supply

- Terminal blocks for redundant DC power inputs
- Din connector for external AC to DC adaptor
- Input Voltage: 48 to 57 VDC
- Power Consumption: 65 Watts maximum
- Over current protection
- Automatic short protection

### Standards Support

- VDSL2 ITU-T G.993.2
- VDSL2 Profiles: 17a and 30a

### Protocol Support

- Transparent bridging to higher layer protocols

### Operating Environment

- Operating Temperature: -40°C to 75°C
- Storage Temperature: -40°C to 85°C
- Humidity: 10% - 95% (non-condensing)

## Physical

- Hardened aluminum case, IP30
- Dimensions: 62 x 135 x 106.5 mm
- Installation: DIN-Rail, Panel Rack Mounting

## Regulatory Compliance

- CE
- FCC Part 15 Class A
- EN60950

# Reference Performance Data

## UTP - 24AWG Copper Wire

SNR	6dB		6dB		
Profile	Asymmetrical		Symmetrical		
Distance	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)	PoE Output Power
300m	65	100	100	100	30W
400m	45	95	70	70	20W
600m	30	65	45	45	15W
800m	10	45	27	27	7W
1,000m	6	35	18	18	5W
1,200m	1	20	8	16	4W

\* The above data is for reference only, the actual performance may vary depending on the quality of the cable and environmental conditions.

## Coaxial Cable

SNR	6dB		6dB		
Profile	Asymmetrical		Symmetrical		
Distance	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)	PoE Output Power
400m	100	100	100	100	30W
600m	50	100	50	80	20W
800m	50	100	50	80	15W
1,000m	45	90	50	60	10W
1,200m	40	70	50	50	8W
1,400m	35	55	40	35	6W
1,600m	30	40	35	30	5W
1,800m	10	35	20	20	4W
2,000m	5	30	15	15	

\* The above data is for reference only, the actual performance may vary depending on the quality of the cable and environmental conditions.