

MLS-318



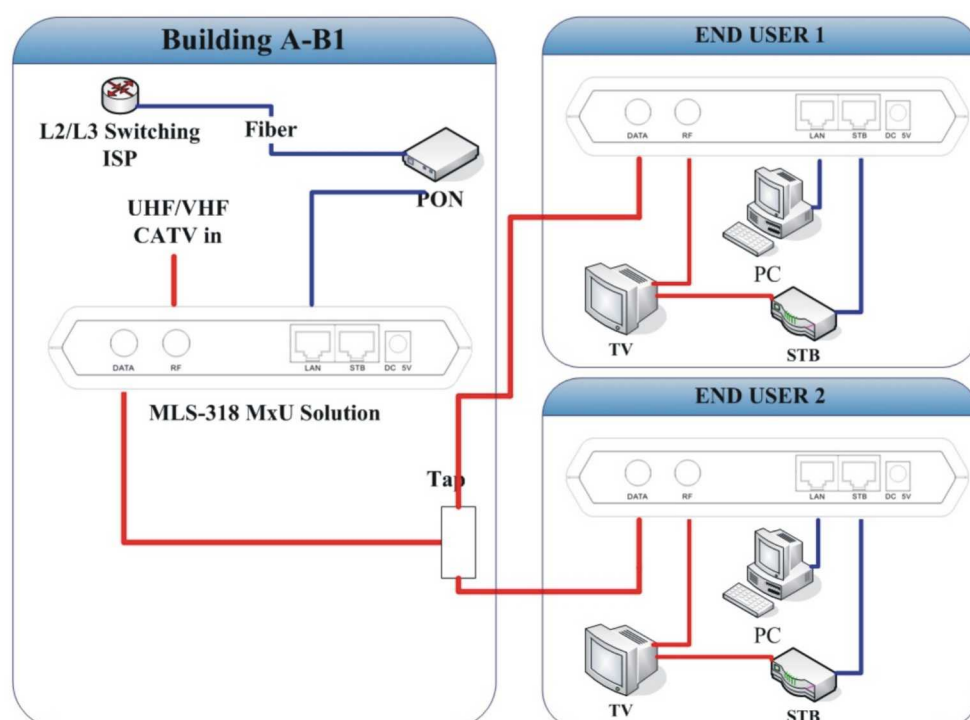
The **MLS-318** is point-to-point EoCNA(Ethernet over Coax Network) solution that efficiently extends 10/100 Ethernet circuits to over 800 meters(2,624feet) at 160Mbps using existing coaxial wire. The MLS-318 will allow Ethernet connectivity in existing facilities without pulling extra cable. This is perfect solution to Ethernet on the factory floor where systems have been upgraded from slower serial communication to Ethernet networking. Installation is easy with a single switch setting. One end is set for local and the other remote. The MLS-318 is used in Coaxial wire to extend Ethernet connectivity over existing CCD/CATV grade Coaxial wire.

Key Features

- ◆ High-Speed 160Mbps communications link over existing Coaxial Cable, Symmetrical on EoCNA
- ◆ 160Mbps@ up to 800 meters(2,624feet), reach down to 4Mbps @ about 1.2Km(4,000feet)
- ◆ Operates transparent to high layer protocols such as TCP/IP
- ◆ Auto-MDIX and Auto-sensing 10Base-T or 100Base-TX and Full or Half-Duplex on the Ethernet port
- ◆ Plug and Play design for simple installation, single switch config
- ◆ Status LEDs for simple monitoring of the device and connection status

Applications

- ◆ Extend LAN connectivity to a remote site or between buildings
- ◆ Connect Ethernet over the different Room over existing house's Coaxial infrastructure
- ◆ Connect new controller technology on the factory floor using existing wiring
- ◆ Extend Ethernet connectivity from a backbone network to an isolated location via Coaxial wire
- ◆ Transmit Video and traffic controller information over existing Coaxial wire



MLS-318 Ethernet Extender over Coaxial Cable

Technical Specifications

Network Standards:

- ◆ ITU G.9954 , Ethernet Over Coaxial Network (EoCNA)
- ◆ IEEE802.3 10BASE-T, 10Mbit/s
- ◆ IEEE802.3u 100BASE-TX, Fast Ethernet at 100Mbit/s, Auto-negotiation
- ◆ IEEE802.3x Full Duplex and Flow Control
- ◆ IEEE802.1Q port-based VLANs and/or 802.1Q tag-based VLANs
- ◆ IEEE802.1p Multi-Priority assignment, Differential queue weight, Port-based and queue-based rate limitation
- ◆ Multicast Applications: Support IGMPv1/v2 snooping.
- ◆ Port Rate limit function

Protocol:

- ◆ Transparent to higher layer protocols

Connectors:

- ◆ Fast Ethernet : One RJ45 Connectors
- ◆ Coax : Two F-Type Female Coax Connectors , One for EoCNA , the other for TV

Transmission Power and Spectrum:

- ◆ 0 +/-0.5 dBm
- ◆ 12-28 MHz

Transmission Speed and Distance:

- ◆ Up to 160Mbps@800 meters
- ◆ Up to 4,000 Feet (-176dBm/Hz Noise Floor)

Fast Ethernet Interface:

- ◆ 10/100 Mbps
- ◆ MDI/MDI-X Auto Crossover

Quality of Service:

- ◆ Priority Base on IEEE802.1p and TCP/UDP port
- ◆ Guaranteed QoS base on Layer II Parameterized QoS

Network Management:

- ◆ Diagnosis of EoCNA function
- ◆ Secured/Isolated Communication between DEVs
- ◆ Provision/Denial of Service

Indicators:

- ◆ "Power" LED
- ◆ EoCNA Link/Act , SyncMode LED
- ◆ LAN Link/Act LED, STB Link/Act LED

Environmental Conditions:

- ◆ Operating Temperature : 0 °C ~ 55 °C (32 °F~131 °F)
- ◆ Storage Temperature : -10 °C ~ 65 °C (14 °F~149 °F)
- ◆ Operating Humidity : 10% ~ 90% , Non-condensing

Power Requirement:

- ◆ External Power Supply : 5V DC
- ◆ Power Consumption : < 6 Watts

Physical Dimension:

- ◆ 155mm(W) x 83mm(D) x 30mm(H)

Unit Weight:

- ◆ 330 g

Emissions Compliance:

- ◆ FCC part 15 Class B, CE Mark

Ordering Information

MLS-318:

- ◆ 2 port 10/100 TX Ethernet Extender over Coaxial Cable

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