

# Vi00103

## Ethernet and PoE UTP Port Multiplexer

### Features

- Connects two IP/PoE devices to a PoE switch using a single Cat5/6 cable
- Provides up to 37W to each of 2 devices
- Reduces installation costs and time
- Indicates PoE presence at Camera side (TX module)
- Compatible with IEEE 802.3af and IEEE 802.3at
- No power source required
- Low cost and easy to use
- Patented design



### Applications

- Adding a new IP camera to an existing installation without extra wiring
- Home security and communication applications
- Cost-effective solution for powering two IP devices using a single cable

The NetMux™ Vi00103 port multiplexer enables connecting two IP/PoE devices using a single Cat5/6 cable. It includes a port Combiner and a port Splitter. The Vi00103RX combines two IP/PoE streams and transmits them through only one Cat5/6 cable. It has two built-in 10 inch Cat 6 pigtail cables to connect to the PoE switch. The Vi00103TX separates the combined signals and connects them to two ports of the IP/PoE devices such as IP cameras. It has two integrated LEDs to indicate of PoE status for each port.

The Vi00103 can handle PoE power of up to 37W for each connected device. The NetMux™'s innovative design is compact and easy to use. It is compatible with IEEE 802.af, IEEE 802.at and most non-standards POE systems up to 37W for 10/100 BASE-T environments.

NetMux™ is patented and is a perfect solution for reducing installation costs or adding PoE cameras or other IP/PoE devices to an existing installation.

# Technical Specification\*

## Electrical

Ethernet Interface	10BASE-T and 100BASE-T
Power Source	No external power source needed
Connections	Vi00103RX: 2 x Male RJ45, 1 x Female RJ45 Vi00103TX: 3 x Female RJ45
Status LEDS	Vi00103RX: N/A Vi00103TX: Port 1 PoE Output: Green LED Port 2 PoE Output: Green LED
PoE Compatibility	IEEE802.3af/at maximum 37W per port

## Regulatory

Safety	CE, FCC
Environmental	RoHS, WEEE

## Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: -40°C to +75° C Storage: -40°C to +80°C

## Mechanical

Dimensions	Vi00103RX: 0.8x0.84x1.90 in, 2.03x2.13x4.83 cm (HxWxL) w/ two 10 inches (25 cm) pigtail Cables Vi00103TX: 0.83x1.39x1.44 in, 2.11x3.53x3.66 cm (HxWxL)
Weight	Vi00103RX: 0.068 lb (31 g) Vi00103TX: 0.035 lb (16 g)
Housing	ABS plastic, UL rating of 94V-0

\*Specifications subject to change without notice.

## Ordering Information

Part No.	Description
Vi00103	Ethernet and PoE UTP Port Multiplexer
Vi00103S	Ethernet and PoE STP Port Multiplexer

### Important Note:

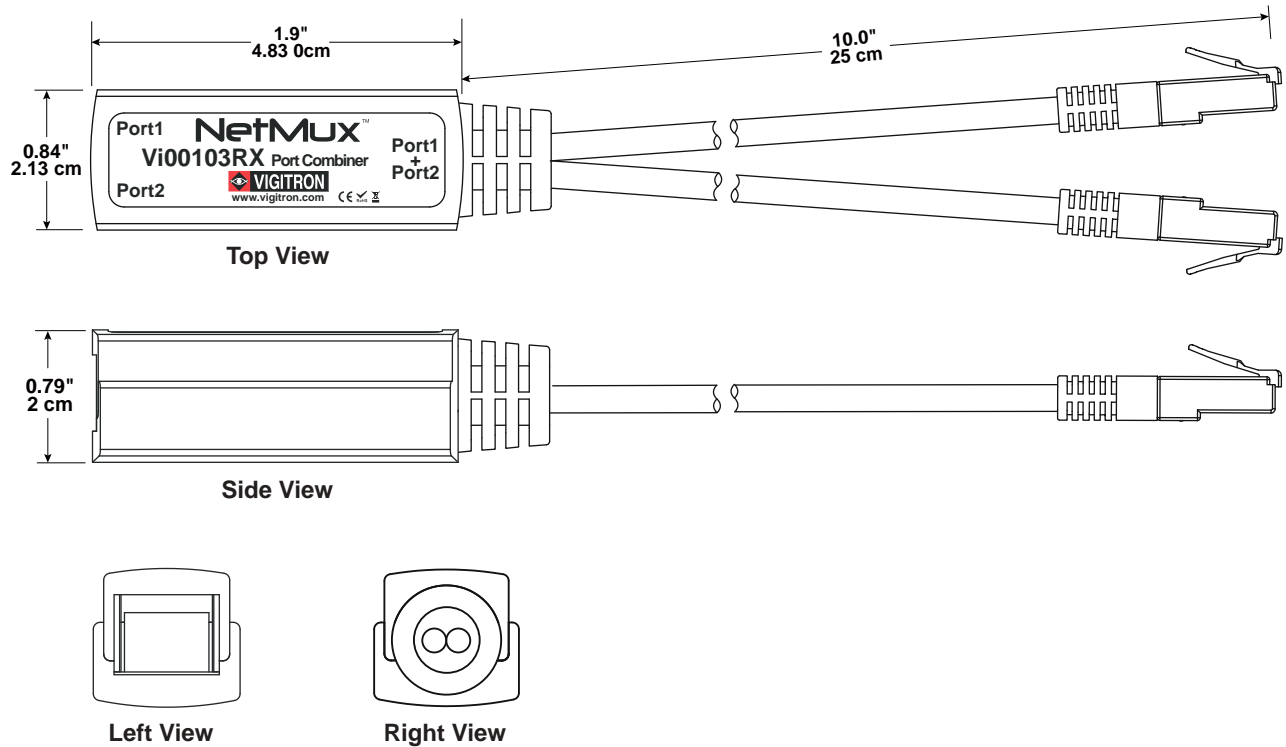
The Vi00103 is designed to transmit 2 ports of 10/100 Ethernet over a single Cat5E/Cat6 cable. If a connected port is 1000BaseT (1G) and doesn't automatically change to 100MBps, that port does not get connected. In this case, the user must log into the 1G switch and force the port speed to 100MBps.

The Vi00103 requires a proper PoE source based on the PoE requirements of the connected devices. Please make certain your PoE source is capable of providing enough power required for both ports.

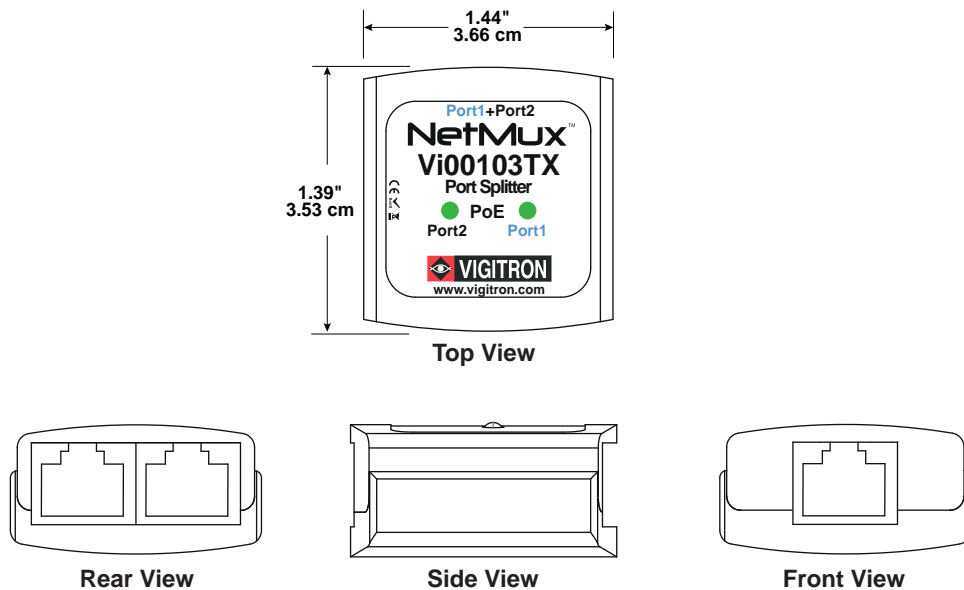


# Mechanical Drawings

## Vi00103RX:



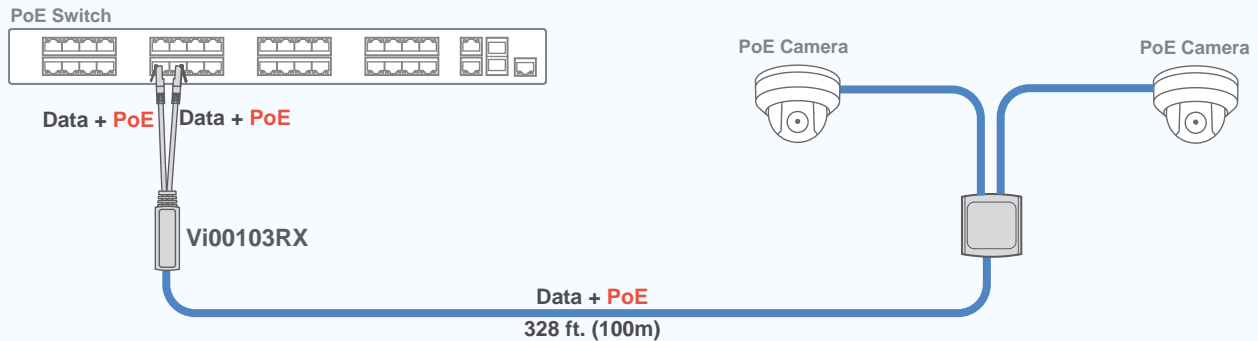
## Vi00103TX:



# Application Drawings

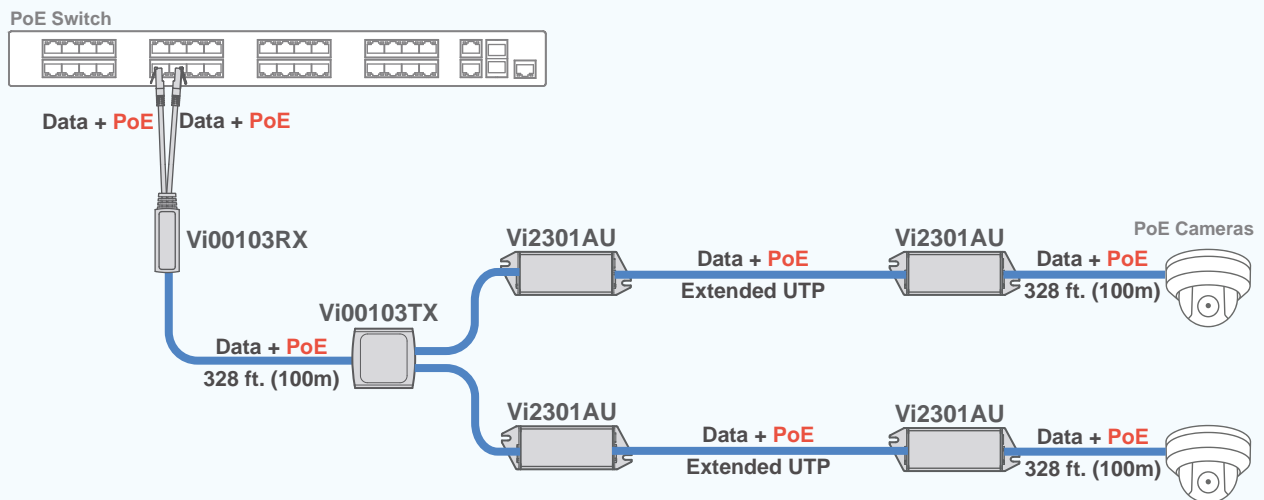
— Cat 5/6

## Connecting Multiple PoE Cameras at Standard UTP Distances



The NetMux™ Vi00103 can connect two cameras at standard UTP distances over a single cable.

## Connecting Multiple PoE Cameras at Extended UTP Distances



The NetMux™ Vi00103 along with Vi2300 series can connect two cameras at extended UTP distances.