

# 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 is a high-performance, port multiplexer designed to simplify and optimize your IP/PoE installations. It enables two IP/PoE devices, such as IP cameras, to share a single Cat5/6 cable, significantly reducing installation complexity and costs.

This innovative solution includes the Vi00103RX, a port combiner, and the Vi00103TX, a port splitter. The Vi00103RX combines two IP/PoE streams and transmits them through one Cat5/6 cable, while the Vi00103TX separates the combined signal and connects it to two IP/PoE device ports seamlessly.

The Vi00103 supports PoE power up to 37W per connected device and is compatible with IEEE 802.3af, IEEE 802.3at, and most non-standard PoE systems. Designed for 10/100 BASE-T environments, the Vi00103 offers compact and reliable performance, making it easy to install and deploy.

The patented NetMUX™ technology ensures efficient performance and reliability. It is the ultimate solution for expanding your IP/PoE network or upgrading existing installations without additional cabling costs. It is perfect for connecting PoE cameras, access control systems, and other IP/PoE devices.

# 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
Vi00103W	Weatherproof Ethernet and PoE UTP Port Mux

## Important Note:

- The Vi00103 is designed to transmit two 10/100 Ethernet ports over a single Cat5/5E/Cat6 shielded cable. If a connected port operates at 1000BaseT and does not automatically downgrade to 100Mbps, that port will fail to establish a connection. In this case, the user must manually log into the 1G switch and force the port speed to 100Mbps.
- The Vi00103W requires a suitable PoE source, based on the power requirements of the connected devices. Ensure that your PoE source can supply sufficient power to support both ports.



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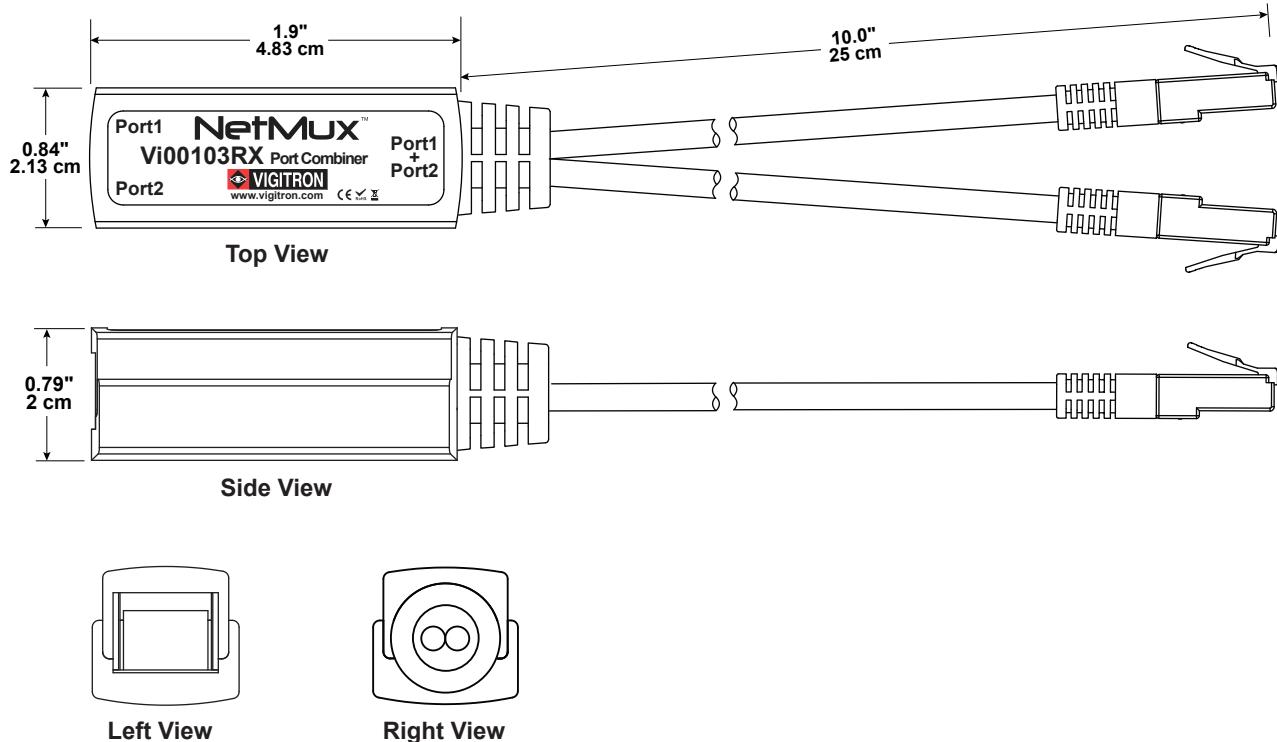
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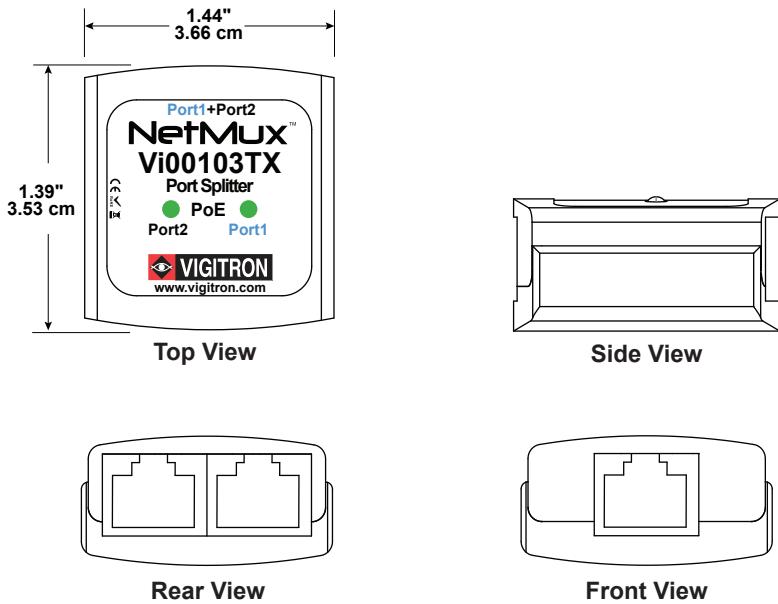
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# Mechanical Drawings

## Vi00103RX:



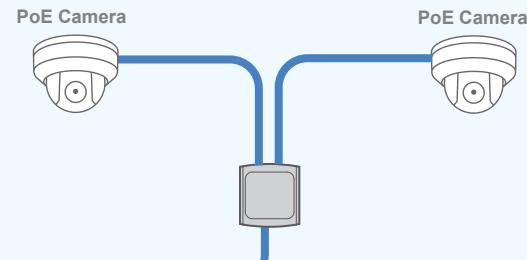
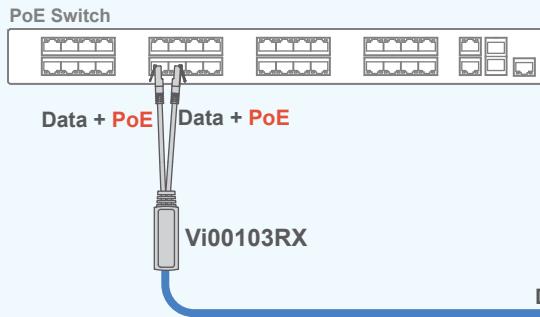
## Vi00103TX:



# Application Drawings

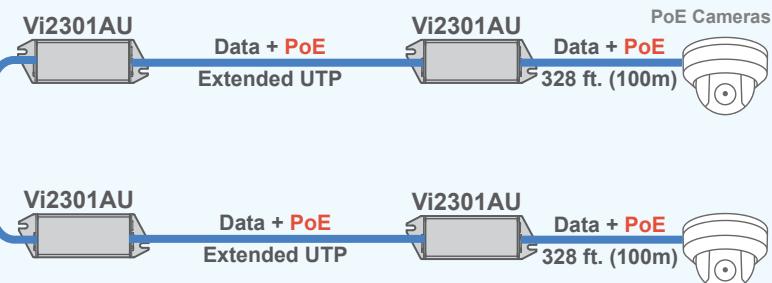
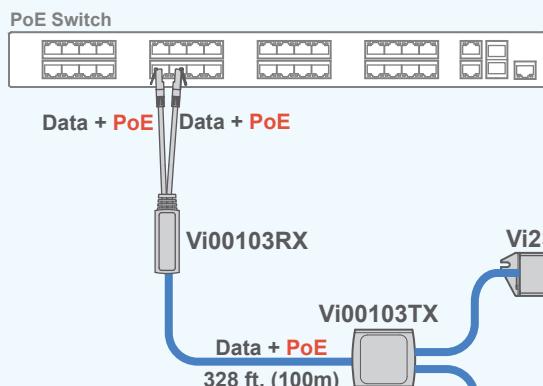
Cat 5/6

## 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.



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