Vi00103S

Ethernet and PoE STP Port Multiplexer

Features

- Connects two IP/PoE devices to a PoE switch using a single shielded Cat5/6 cable
- Provides up to 37W to each of 2 remote 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™ Vi00103S port multiplexer enables connecting two IP/PoE devices using a single shielded Cat5/6 cable. It includes a port Combiner and a port Splitter. The Vi00103SRX combines two IP/PoE streams and transmits them through only one Cat5/6 shielded cable. It has two built-in 10 inch Cat 6 shilded pigtail cables to connect to the PoE switch. The Vi00103STX 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 Vi00103S 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.

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The Smart Choice for Transmission Solutions   www.vigitron.com

Technical Specification*

Electrical

Ethernet Interface	10BASE-T and 100BASE-T
Power Source	No external power source needed
Connections	Vi00103SRX: 2xShielded Male RJ45, 1xShielded Female RJ45 Vi00103STX: 3xShielded Female RJ45
Status LEDS	Vi00103SRX: N/A Vi00103STX: 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	Vi00103SRX: 0.93x0.94x2 in, 2.3x2.39x5 cm (HxWxL) w/ two 10 inches (25 cm) pigtail shielded Cat6
Cables	
	Vi00103STX: 0.83x1.4x1.44 in, 2.11x3.56x3.66 cm (HxWxL)
Weight	Vi00103SRX: 0.086 lb (39 g) Vi00103STX: 0.057 lb (26 g)
Housing	ABS plastic, UL rating of 94V-0

*Specifications subject to change without notice.

Ordering Information

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

Important Note:

The Vi00103S is designed to transmit 2 ports of 10/100 Ethernet over a single Cat5E/Cat6 shielded 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 Vi00103S 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.
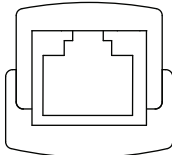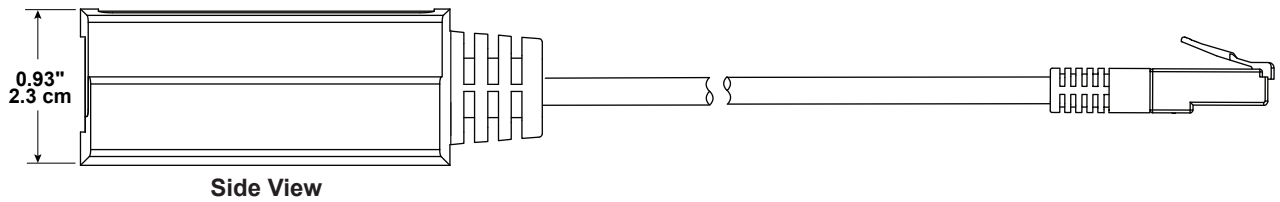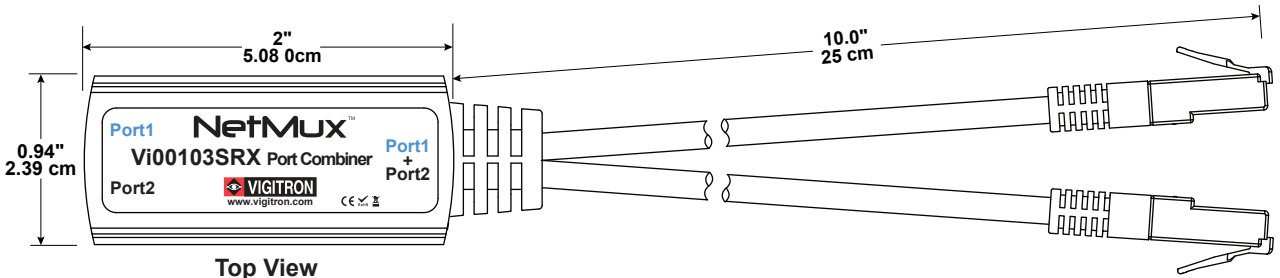
Mechanical Drawings

Vi00103SRX:

2"
5.08 0cm

10.0"
25 cm

0.94"
2.39 cm

Port1 **NetMux**™
Vi00103SRX Port Combiner
Port2

Port1
+
Port2

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Top View

0.93"
2.3 cm

Side View

Left View

Right View

Vi00103STX:

1.44"
3.66 cm

1.4"
3.56 cm

NetMux™
Vi00103STX
Port Splitter

Port1   Port2

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Port1+Port2
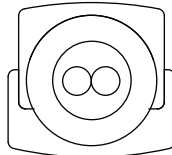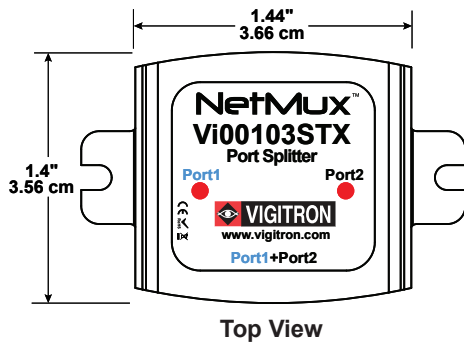
Top View
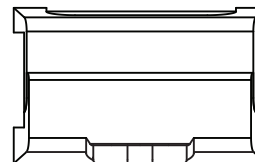
Side View
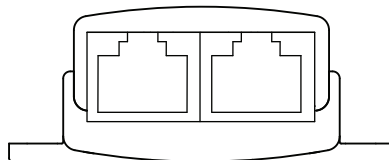
Rear View
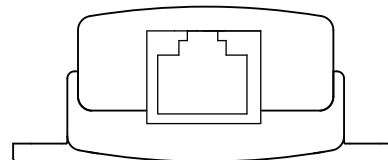
Front View

Application Drawings

Connecting Multiple PoE Cameras at Standard STP Distances

PoE Switch

Data + PoE | Data + PoE

Vi00103SRX

PoE Camera

PoE Camera

Vi00103STX

Data + PoE
328 ft. (100m) STP
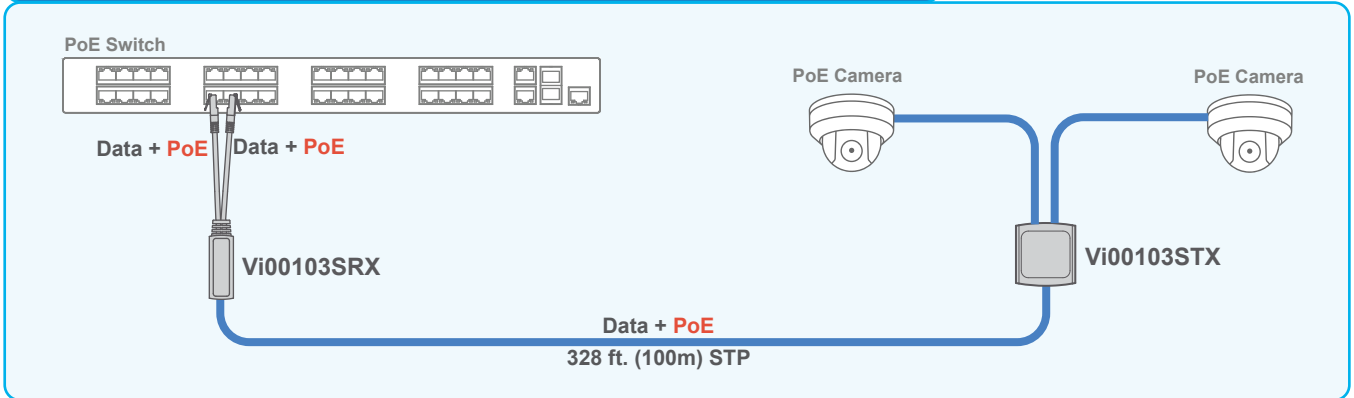
The NetMux™ Vi00103S can connect two cameras at standard STP distances over a single cable.

Connecting Multiple PoE Cameras at Extended STP Distances

PoE Switch

Data + PoE | Data + PoE

Vi00103SRX

Vi2301AU

Data + PoE
Extended UTP

Vi2301AU

Data + PoE
328 ft. (100m)

PoE Cameras

Vi00103STX

Data + PoE
328 ft. (100m) STP

Vi2301AU

Data + PoE
Extended UTP

Vi2301AU

Data + PoE
328 ft. (100m)
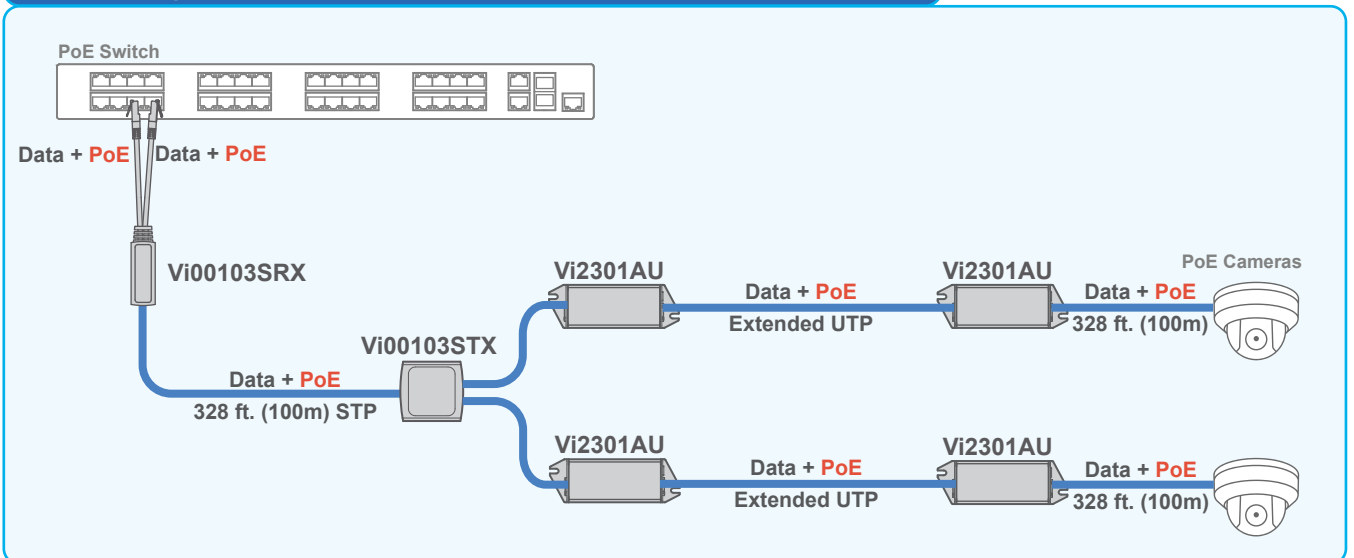
The NetMux™ Vi00103S along with Vi2300 Extender series can connect two cameras at extended UTP