Shadow TAP 10/100

Key Features

- 10 and 100 Mbps passive network access without interfering with network traffic.
- LEDs to provide power status and indication on which signal pairs the power over Ethernet activated.
- Passes packets from all network layers to enable complete diagnose and troubleshooting.
- Completely transparent to the network so that attached monitoring or analysis devices do not require an IP address.

Benefits

- Enables dynamic insertion of Security, Analysis, & Monitoring Devices into 10 or 100 Mbps networks without causing a point of failure
- Provides zero network downtime if the TAP were to lose power by utilizing an instantaneous fail over mechanism
- Support for Power over Ethernet with compatibility to switches and other devices that supply power over Ethernet cables
- Offers significant advantages over "Port Mirroring" for Intrusion Detection, Network Analysis, or Monitoring

Technical Specifications

Power consumption
500mA
Input Voltage
+15VDC
Temperature
Operational: +10° to +40° C (+50° to +140°F)
Dimensions
Rack Mount Enclosure: 5.6"W x 1.2"H x 5.5"D
Cabling Requirements
2 Network Ports: CAT5e with RJ45 connectors
2 TAP Ports: CAT5e with RJ45 connectors
Cabling Distances
90 meters maximum

Interested in monitoring your network for unwanted security breaches with network intrusion detection systems but concerned about creating a point of failure on the network? Are you trying to troubleshoot network problems with protocol analyzers and require all packets to be examined? How do you install such analysis equipment in your networks without interfering with network performance, dropping packets, or creating a point of failure?

By using network TAPs, you can create a permanent access point on the network for intrusion detection systems, protocol analyzers, and other detailed network monitoring equipment. Network TAPs pass through all traffic on the network while passively making a copy of all the traffic for analysis purposes. Even if the TAP were to lose power, network traffic would continue to pass through the TAP unimpeded. Network performance is not interfered with in any way and TAPs free up span or mirror ports on your switch for business use. Whether used in half or full duplex mode, network TAPs can provide visibility to all levels of the network stack, enabling comprehensive analysis—even for physical layer errors.

The JDSU Shadow TAP 10/100 provides line rate access to traffic at 10 or 100 Mbps on Ethernet networks without interfering with the data stream and it is fully compatible with intrusion detection systems (IDS), protocol analyzers, and other leading network monitoring devices. With an instantaneous fail over feature, the Shadow TAP provides no network disruption if the TAP were to lose power, offering fault tolerance to the network infrastructure. In addition, dual power supplies provide additional redundancy in case power is lost on the main power supply. The Shadow TAP 10/100 comes in either a rack mountable enclosure form or as a PCI card to support direct insertion into a server.

The Shadow TAP remains completely invisible to the network so that attached monitoring and analysis systems do not require their own IP address providing increased security. Power over Ethernet is fully supported and compatible with leading switches and network devices offering power over Ethernet cables. The Shadow TAP automatically propagates inline power applied through any attached 10/100 network segment and is performed in accordance with IEEE 802.3af industry standard for applying power to data terminal equipment (DTE).

The Shadow TAP 10/100 eliminates many of the problems commonly associated with the use of a switch span or mirror port for monitoring and analysis, such as switch performance degradation, use of a port for analysis or monitoring rather than LAN traffic, inability to see physical-layer errors, and lack of full-duplex support.

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