

### 4-Channel Full-Duplex In-Line Ethernet TAP

#### FEATURES SUMMARY

- Active TAP based on store-and-forward architecture
- Network ports:
  - Eight 10/100Mbps RJ-45 Ethernet ports for monitoring up to 4 network segments
  - Support both full and half-duplex modes
  - Auto network sensing and auto negotiating of speed and duplex mode
- Monitoring port:
  - One 10/100/1000Mbps RJ-45 Ethernet port
  - Support full duplex mode only
  - Auto MDI/MDI-X and auto correction of twisted-pair polarity
- Console port:
  - One RS-232 port for real-time display of traffic statistics on the monitoring PC
- 8 x 14 LEDs for real-time display of traffic events including packet types, collisions, and errors.
- 1 x 4 LEDs for real-time port monitoring display status
- Built-in filter for blocking traffic from specific network port(s) to the monitoring port

#### MAJOR BENEFITS

- Provides an invisible, non-intrusive permanent access for dynamic insertion of network monitoring and analysis devices without disrupting links or causing network degradation
- Simultaneous non-blocking forwarding of all TXs and RXs traffic, including error packets from up to 4 network segments to a single monitoring port, to maximize the port usability of the Intrusion Detection System (IDS)
- Protects the IDS sensor from being attacked by the network segment being monitored
- Removes the need for spanning / mirroring port and avoids problems associated with using such methods for traffic monitoring
- Real-time monitoring, capturing, and analyzing of network traffic
- Compact, lightweight and highly cost effective

#### KEY APPLICATIONS

- Traffic monitoring and analysis by networking device developers and/or network operators
- Intrusion Detection System

### NuTAP

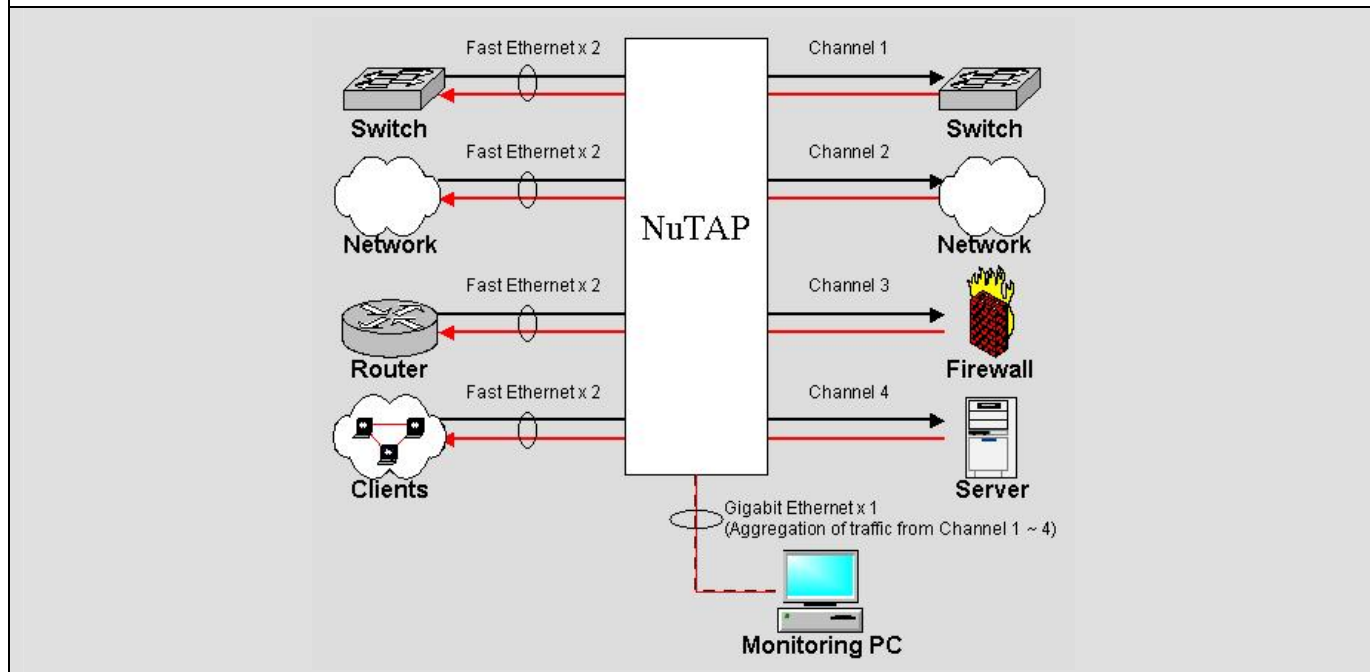


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## OVERVIEW

### APPLICATION DIAGRAMS



**NuTAP** provides a safe, secure and cost-effective way for the deployment of IDS sensor into full-duplex links by aggregating both directions of the full-duplex streams on up to 4 different network segments into a single 1000Mbps monitoring port. The IDS sensors could then see both sides of the conversation on the monitored network segments with only one interface. Because the IDS sensor is hidden behind the TAP, it's shielded from direct attacks from the link being monitored.

Completely passive and non-intrusive to the network segment being monitored, **NuTAP** provides access to all network traffic from both sides of a full duplex link. Allowing network monitoring or analysis tools to be dynamically inserted into the network segment without causing any disruption to the link.

**NuTAP** can be used with professional analyzers such as NuStreams-2000/600 from Xtramus, or third party LAN and security analyzers. Together, they provide an effective way for probing or analyzing full-duplex traffic on single or multiple network links that cannot be achieved by using traditional methods such as Hub, Port Spanning / Mirroring.

#### Specification:

- Interfaces:
  - Network Port: 8 x 10/100Mbps Ethernet with RJ-45 connectors
  - Monitoring Port: 1 x 10/100/1000Mbps Ethernet with RJ-45 connector
  - Console Port: 1 x RS-232 with DB-9 connector
- LED Display:
  - Status: Link, Speed, Duplex Mode, Tx, Rx
  - Counters: Unicast, Broadcast, Pause, Collision, CRC Error, Alignment Error, Dribble Error, Oversize, Undersize
- Power: DC 12V; Typical Power Consumption: 6.6 Watt
- Temperature: 0°C ~ 40°C (Operating); 0°C ~ 50°C (Storage).
- Humidity (non-condensing): 0% ~ 85% (Operating); 0% ~ 85% (Storage).
- Dimension & Weight: 175mm x 85.9mm x 32.6mm; 500 g.

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