NuTAP

NuTAP Overview

NuTAP provides a safe, secure and cost-effective way for the deployment of IDS (Intrusion Detection System) sensor into full-duplex links by aggregating both directions of the full-duplex streams on up to 4 different network segments into a single 1000 Mbps monitoring port. The IDS sensors could then see both conversations on each side of 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-2000i/600i 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.

KEY FEATURES

- Active TAP based on store-and-forward architecture
- Network ports:
  - Eight 10/100Mbps RJ45 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 RJ45 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
- 1 x 3 LEDs for NuTAP device
- 1 x 3 LEDs for real-time port monitoring display status
- 8 x 14 LEDs for real-time display of traffic events including packet types, collisions, and errors
- Built-in filter for blocking traffic from specific network port(s) to the monitoring port via 8 dip switches
- Supports Power-over-Ethernet devices
- Firmware and FPGA are upgradeable via RS-232 port

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 TX and RX 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.

MAIN APPLICATIONS

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

SPECIFICATIONS

Interface		
Network Port	10/100Mbps Ethernet RJ45 Ports x 8	
Monitor Port	10/100/1000Mbps Ethernet RJ45 Port x 1	
Console Port	DB-9 RS-232 Port x 1	
LED Display	**Device**	Power, System, Counter Display
	Status	Link, Speed, Duplex Mode, Tx, Rx
	Counters	Unicast, Broadcast, Pause, Collision, CRC Error, Alignment Error, Dribble Error, Oversize, Undersize
	Console	Speed, Link

Main Frame Spec.		
Dimension	175 mm x 85.9 mm x 32.6 mm	
Temperature	➢ Operating: 0°C~ 40°C (32°F~ 104°F)	➢ Storage: 0°C~ 50°C (32°F~ 122°F)
Humidity	➢ Operating: 0% ~ 85% RH	➢ Storage: 0% ~ 85% RH
Power Source	➢ Output: DC 12V	➢ Typical Power Consumption: 5.5 Watt
Net Weight	Approx. 500g	

RELATED PRODUCTS

NuTAP Series:

- **NuTAP-S61**
  - ➢ Network TAP with Two 10/100 Mbps Network Port and Two 10/100 Mbps Monitor Port

- **NuTAP-311**
  - ➢ Network TAP with Two 10/100/1000 Mbps Network Port/Monitor Port

- **NuTAP-R Series (Rackmount):**
  - ➢ Full-Duplex In-Line Management Network TAP
  - ➢ 10/100/1000M Combo Interface(UTP+SFP)

NuTAP-R21G

NuTAP-R12G

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