



# Wirespeed Management Network TAP

## KEY BENEFITS

- Real-time monitoring and analyzing of network traffic.
- Relay function to insure no interruption when power failure happens.
- Provides an invisible, non-intrusive permanent access to network monitoring and analysis devices without link disruption or degradation.
- Simultaneous non-blocking forwarding of all TX and RX traffic, including error packets.
- Protects the IDS sensor from attack by the monitored segment.
- Option to withdraw Redirecting /mirroring function to avoid any problems associated with such methods.
- All filter settings can be defined by management port.
- Easy to read counter status.
- Conform to 19" rackmount form factor.

## MAIN APPLICATIONS

- Traffic monitoring and analysis for networking device developers and/or operators.
- Intrusion Detection System (IDS)

## OVERVIEW

Xtramus **NuTAP-R series** is the only high-level product which has port aggregation function at present Network monitor market. **NuTAP-R series**, the high level segment and rackmount form factor of **NuTAP-R series**, is the first network surveillance equipment supporting Gigabit Ethernet after NuTAP series. Its surveillance network port which has 2 or 4 Combo interfaces can support wirespeed forwarding of 1 Gigabit Ethernet at the same time, Packet Capture, and Packet Re-direction functions.

**NuTAP-R series** is embedded with 1 Gigabits high-speed memory and trigger module which can monitor 30 sets per port of networks per line. Those can let users set the network packets which need to be redirect by their own. Besides, the up to 60 sets of event counters on each surveillance line can provide as important data for network statistics, error detecting, analysis, monitoring and so on.

**NuTAP-R series** supports the operating mode of 10/100/1000M. It also has Relay function which can automatically switch to side band when there's no power supply. And plus the Redundant backup power system, we can assure you the best network connection. It will be a trustworthy network tap for UTP network.



NuTAP-R12G



NuTAP-R21G



NuTAP-R12G Panel



NuTAP-R21G Panel



## KEY FEATURES

- Active TAP based on monitor-and-forward architecture.
- Filter supports 8-set 32bits UDF and 2-set 48bits UDF (offset fix at DA/SA).
- Support full set RMON counter.
- Real-time LED indicators of traffic events and monitoring.
- Packet redirect function:
  - **Aggregation mode:** Up/Down redirect into one 1 pair(2 ports) to 2 output port (R12G)  
2 pairs(4 ports) to 1 output port (R21G)
  - **Segregation mode:** Up/Down redirect separately Individual direction traffic of 1 pair to individual output port (R12G)
  - Management of aggregation / Segregation mode: Controlled by on-panel button, serial port, or web-based management interface
  - Error Traffic Redirect
- Design of web-based management interface makes the active friendly.
- Provides the Statistic Counter: Rx Frame, Tx Frame, Collision, CRC Error, Alignment Error, Dribble Error, Oversize, Undersize, Broadcast, Multicast, Packet size (64~1518), Pause, 256 streams VLAN, Frame Rate and other RMON counters.
- Built-in filter to block traffic from specific network port(s) to the monitoring port (Individual 10 sets filter per port, R series).
- Redundant power (DC 48V power input module) optional.
- Support PoE Link automatically.
- Loopback test function test the transmission and route problem of network.

## SPECIFICATIONS

- Interface
  - **Network Port**
    - **NuTAP-R12G:** One pair of one 10/100/1000Mbps RJ45 and Mini-GBIC combo ports for traffic up to 1 network segment
    - **NuTAP-R21G:** Two pairs of one 10/100/1000Mbps RJ45 and Mini-GBIC combo ports for traffic up to 2 network segments
  - **Monitoring Port**
    - **NuTAP-R12G:** Two 10/100/1000Mbps RJ45 and Mini-GBIC combo ports
    - **NuTAP-R21G:** One 10/100/1000Mbps RJ45 and Mini-GBIC combo port
  - **Management Port:**  
One 10/100Mbps RJ45 port
  - **Series Port:**  
One RS-232 port for real-time display of traffic statistics
- **Supported Packet Length**
  - **Network Port:** 32 ~ 12000 bytes
  - **Monitor Port:** 32 ~ 8000 bytes

- **Power Source Type:**  
Provides three types of power source for option
  - One AC(90V~240V) power
  - One AC(90V~240V) and one DC(48V) power
  - Two DC(48V) power
- **Power Consumption:**  
7.5~ 13 Watt (SFP Transceivers excluded)
- **Test Criteria:**  
Unicast, Broadcast, Pause Control, Collision, CRC, Undersize, Oversize, Trigger, Capture Loss
- **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
- **Dimensions:** 442 mm x 240 mm x 43 mm
- **LED Display :**
  - Status: System, Blink/Oneshot , Speed, Link/ ACT, SD, PoE
  - Counters: Unicast, Broadcast , Pause, Collision, CRC, Oversize, Undersize

## RELATED PRODUCTS

- **NuTAP**
  - Wirespeed Active network TAP with 4 pairs of Ethernet 10/100 Mbps UTP Port.



- **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



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