XenOpt

X6500-GTAP

Features

- Supports monitoring of 10/100/1000 Base TX connections with automatic adaptation on monitored signal.

- Completely transparent for monitored connections. Transparent also in case of device power failure.

- Complete isolation of monitored ports from monitoring ports.

- Possible manual setting of monitoring speed.

- Minimal time delay and no retiming of monitored signals allow detection of malformed signals on monitored lines.

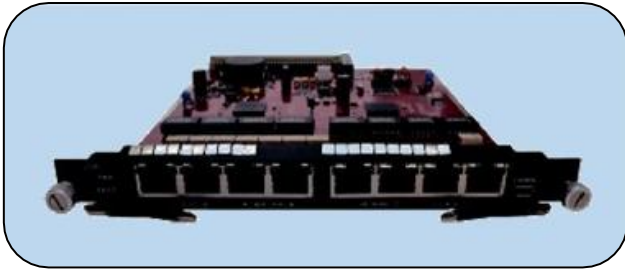- Allows plug and play operation without requirement to set any parameters.

Product Overview

X6500-GTAP is an active network device for monitoring copper Ethernet connections. It enables transparent copying of monitored network data from both directions of monitored connection to two separate monitoring ports. It supports monitoring of 10/100/1000Mb Base TX interfaces with manual or automatic monitoring port speed setting. By default it adjusts speed of all ports (monitored and monitoring) to speed of lowest speed port.

Active electronic retransmission of monitored signals ensures that monitoring does not affect the monitored connection. Multiple monitoring devices can be daisy-chained on single monitored connection.

Implementation

Each X6500-GTAP includes two independent TAP devices, each with 4 ports – 2 ports to pass monitored signal through the device (A, B) and two ports for monitoring connections. Transmitted signal from each direction is copied to respective monitoring port (TxA, TxB). No data buffering is added in monitored path, so the device does not introduce any additional delays or signal reconstruction that could hide any errors on monitored connection.

X6500-GTAP can be inserted in standard X6500 chassis. There are up to 4 modules in chassis type I up to 8 modules in chassis type II, and up to 16 modules in chassis type V. Up to 32 monitoring lines can be installed in single chassis.

Application case

Switch

Network Interception Equipment

X6500-GTAP block diagram

TAP1

Monitored ports

A	B
TxA	TxB

Monitoring ports

TAP2

Monitored ports

A	B
TxA	TxB

Monitoring ports