



XD NetFortress and NetFortress Diode

Cross Domain Solution

Tresys NetFortress™ is dedicated to the unidirectional passing of syslog and SNMP messages from remote equipment or networks to plant or business networks. It is based on the US Government TSABI-certified XD Bridge™ developed for the military, but in a smaller, lower cost form factor.

NetFortress performs strong data validation to restrict traffic to syslog and SNMP in one direction. The 'red' and 'black' domains can also operate on independent small boards connected via a single fiber optic cable - NetFortress Diode. This hardware separation provides deterministic network isolation. Data can only be transmitted in one direction, no transmit or receive hardware is present for the other direction.

Tresys NetFortress™ and NetFortress Diode

- Simpler, small form factor variant of the TSABI-certified XD Bridge™ (SABI certification in process).
- Unidirectional syslog and SNMP support included.
- Data validation: syslog messages are filtered as ASCII only, with date/time stamp, and maximum length (with truncation). Messages can also be filtered by severity level, IP address, or any other syslog field. SNMP messages are validated at the protocol level and can be limited to specific commands and/or protocol versions.
- Optional hardware diode separation and protocol break between domains.
- Other unidirectional protocols can be supported: file transfer (FTP, SFTP, FTP/S) via transparent proxy, UDP, Unicast, Multicast, Broadcast.

Secure Information Sharing



Performance

Throughput:

1000+ syslog messages per second

Latency:

4 ms avg

Dimensions

8.25" x 7.5" x 2.5" Chassis (192x210x62mm)

Double width (5") for *NetFortress Diode*

Weight

2.8 lbs (6 lbs for *NetFortress Diode*)

Mount

DIN Rail, VESA, Wall mount

CPU

Intel® Celeron 2.0 GHz Quad Core

8 GB SODIMM DDR3L RAM

Ports (per side)

2 x 10/100/1000 Ethernet

4 x USB 3.0

1x VGA, 1x DVI, 2x COM, PS/2 Mouse/Keyboard

Protocols Supported

Syslog, SNMP, FTP, SFTP, FTP/S, UDP, Unicast, Multicast, Broadcast. Custom protocol support available.

Environmental

Operating temperature:

0° to +55°C

Storage temperature:

-40° to +70°C

Humidity:

Maximum 90% non-condensing

MTBF:

>50,000 hrs @ < 55 degrees C

Application

Transferring logs, alerts, sensor data, video, and data recorder information from remote equipment or plant networks to protected control and business networks.

Isolating plant networks from external networks.

Price

NetFortress:

\$2,995

NetFortress Diode:

\$7,995

Includes 1 yr HW Warranty and 1 yr SW Maintenance

Extended SW maintenance:

\$550/\$1,450 per year

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