Product Overview
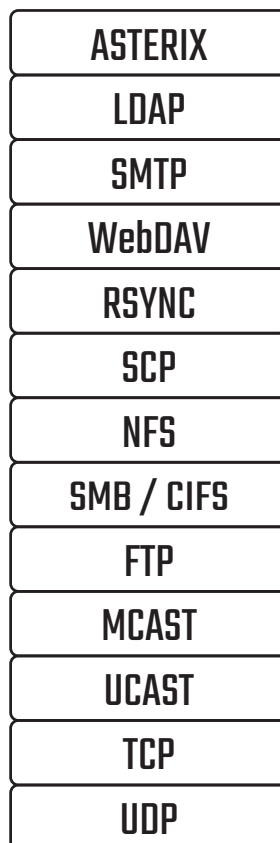
The ZNO-50 is a data diode device ensuring UNIDIRECTIONAL data flow between IT systems and/or networks and/or different security domains.

The ZNO-50 is designed to protect information, including classified information under PL TAJNE / SECRET / NATO SECRET / EU SECRET.

Capabilities

- Unidirectional data transfer
- Filtering of transmitted data
- Functions of data integrity ensuring and transmission reliability
- Audit and control functions
- Transfer of UDP, TCP, MULTICAST datagrams
- Files transfer (FTP/SFTP,SCP,SMB/CIFS, NFS, RSYNC etc.)
- E-mail transfer (SMTP)
- Transfer of ASTERIX-PL and Eurocontrol ASTERIX datagrams
- Integration with AD or LDAP controllers
- Transfer of serial protocols

ASTERIX
LDAP
SMTP
WebDAV
RSYNC
SCP
NFS
SMB / CIFS
FTP
MCAST
UCAST
TCP
UDP

Firewall →

RedHat 7

Transmitting Data Flow Controller	→	Transmitting Separator	▷▶

Features

- Automatic replication of the system BLACK side files on the RED side (file permissions, location and properties are reproduced)
- Data stream transfer performed in real time, including sound and vision, transmitted in accordance with IP protocols (UDP and TCP) from BLACK network to RED network
- Email transfer from BLACK network to RED network users based on the SMTP protocol
- Multicast transmission and data transfer in the ASTERIX format (All-purpose Structured Eurocontrol Surveillance Information eXchange)
- Data transfer from AFTN network (Aeronautical Fixed Telecommunication Network)
- Managing speed of data transfer, load balancing, bandwidth split between different applications and users
- Other protocols and functions possible to develop for individual order
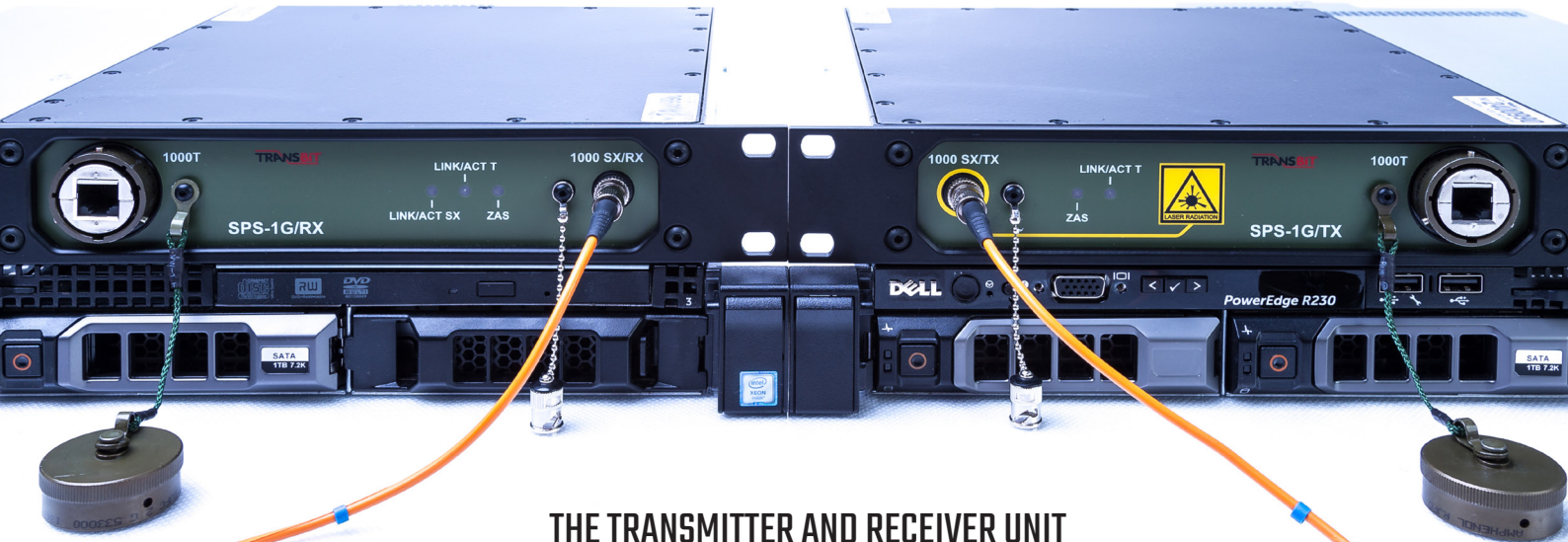- Possibility to adapt to specific requirements

ZNO-50

Data Diode

Transmitter & Receiver Unit

FILBICO Sp. z o.o.

THE TRANSMITTER AND RECEIVER UNIT
intended for use in air-conditioned
military and civilian server rooms

Structure

- The ZNO-50 is made of two one-way fiber-optic interfaces (separators) ensuring unidirectional data flow at the level of physical layer and two data flow controllers providing interfaces with the connected IT networks and/or systems.

Hardware specification

- Exporter and Importer units: RUGGED servers
- Certified RUGGED One Way Data Transfer Regulator SPS-1G/TX/RX-02 (1Gbps bandwidth)

Interfaces

- Gigabit Ethernet (2x1)
- RS232 (2x2)
- USB (2x4)

Software environment

- Operating system Red Hat Enterprise Linux 7

Quality Standards

- ISO 9001
- AQAP-2110
- AQAP-2210

Delivery

- Date of delivery 3-4 months
- Hardware fully equipped unit