

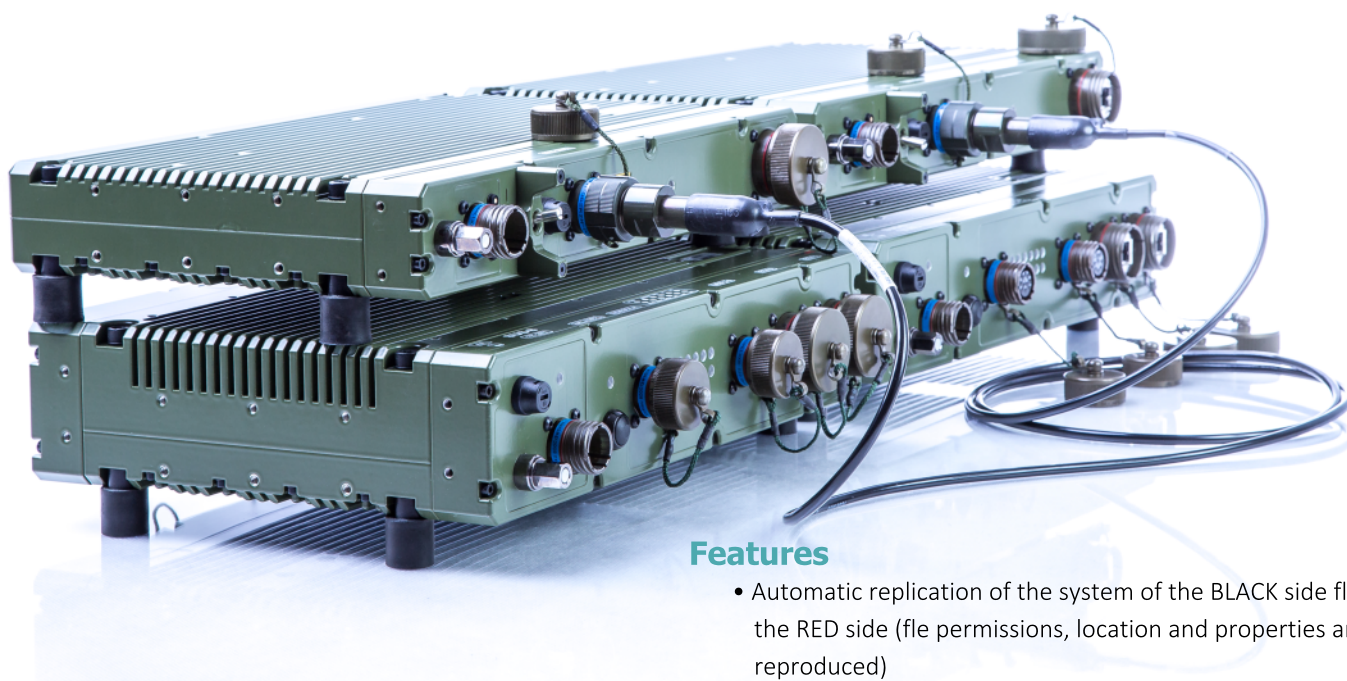
ZNO-50

**STRENGTHENED MANUFACTURING
DATA DIODE**

Product overview

Rugged Execution of Transmitter & Receiver Unit ZNO-50 is a **DATA DIODE** DEVICE ensuring UNIDIRECTIONAL data flow between IT systems and/or networks (e.g. from different security domains).

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

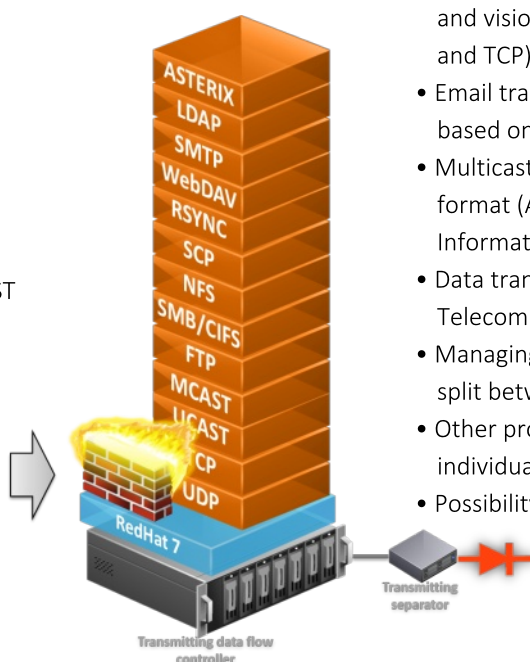


Features

- Automatic replication of the system of the 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 (Allpurpose 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

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

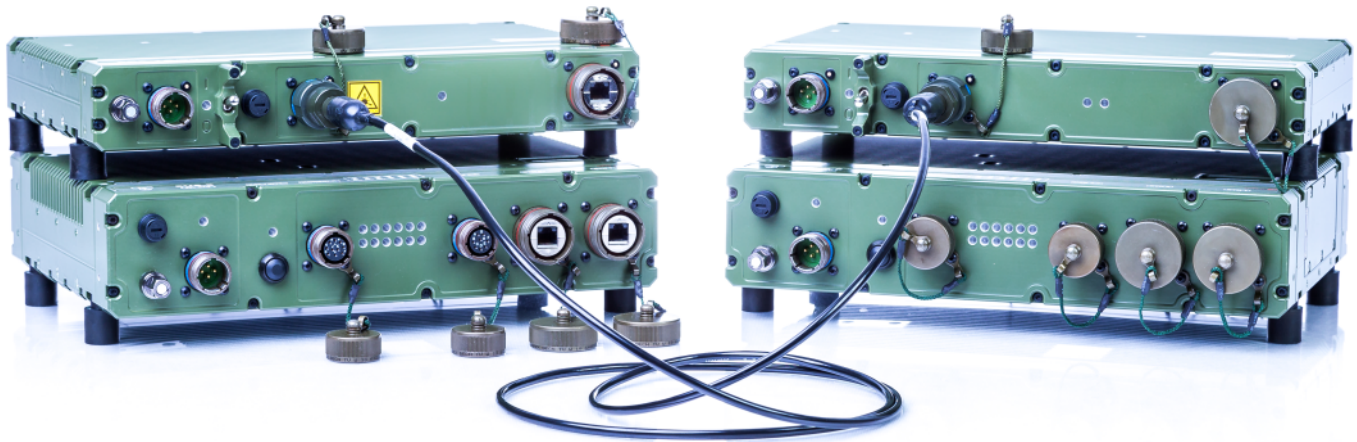


ZNO-50

STRENGTHENED MANUFACTURING DATA **DIODE**

RUGGED EXECUTION of TRANSMITTER AND RECEIVER UNIT intended for use in military (civilian also) objects especially with increased environmental requirements

Devices components of the kit are adapted for working during movement and intended to operate in any position.



Structure

TRU is made of two one-way fibre-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)

Certificate

ICT Security Certificate
Certificate Type No 156/2015/JC SKW
for SPS-1G/TX/RX-02

Software environment

Operating system Red Hat Enterprise Linux 7

Software development standards

Quality ISO 9001
AQAP-2110
AQAP-2210

Delivery

Date of delivery 3-4 months
Hardware fully equipped unit

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ISO 9001:2015
AQAP 2110:2016
AQAP 2210:2015
Certificate of ICS
NCAGE
License of MOIA
FSC 1st Level SECRET
FSC 1st Level NATO SECRET

