



ONE-WAY DATA DIODE SYSTEM

#InformationTechnologies



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## ONE-WAY DATA DIODE SYSTEM

Advanced Persistent Threats target organizations and government agencies to exfiltrate sensitive or classified data. This unauthorized access to networks results in severe damage to countries, private and public organizations.

SAHAB 1D is a proprietary cybersecurity system that allows only a one-way flow of information via a customized hardware design that operates at the border of private and public networks.

SAHAB 1D is used primarily by military organizations, critical infrastructures, public and private organizations. Widespread use of the product will constitute a much higher and complete level of security.

- 1U and 2U design
- Military and civilian versions
- FPGA-based diode function hardware design
- Data stream bandwidth of 1Gbps / 10 Gbps
- Cross-device fiber optic interface (SFP+)
- CC EAL+4 to ensure one-way data transmission
- Ethernet 802.3 support
- VLAN 802.1 Q 802.3 support
- VLAN 802.1AD support

### Physical and Environmental Features

Operating Temperature : -30°C/80°C  
Storage Temperature : -20°C/60°C  
WidthxDepthxHeight (mm) : 440x250x45 (1U)  
482x490x88 (2U)

Power Input : 1x220V AC (1U)  
2x220V AC (2U)

### Functions

#### Management

- HTTPS web portal
- CLI terminal
- SNMP

#### Generic One-Way

- Generic UDP one-way architecture
- 5000+ port/service support
- IP whitelisting/blacklisting

#### One-Way Video

- IP camera streams (RTP, RTMP, RTSP, MPEG-TS)
- NVR/DVR streams (RTP, RTMP, RTSP, MPEG-TS)
- 25+ Channel 4K stream supported

#### One-Way Email

- Email Relay (SMTP)
- Email Host (SMTP, IMAP, POP3)

#### One-Way IT/OT

- Modbus Host
- Modbus Relay
- SNMP
- Syslog Host
- Syslog Relay

#### One-Way File Transfer

- FTP, FTPS, SFTP
- NFS
- SMB
- HTTP portal

#### Custom One-Way

- Custom HTTP web services
- Custom protocols

#### Security

- Tamper protection
- Emergency email notification
- Data corruption or loss detection

