



DATA DIODE EAL 7+

Fast, hardware-based network security

Unilateral data transfer between networks without the risk of unauthorized remote access.

Most two-way communication can be compromised, and even the most well-protected networks can be penetrated.

The fail-safe solution is to physically separate high security networks from low security networks. While this is the most secure solution, this also severely reduces productivity as it prevents data from being transferred directly between the networks.

However, with the data diode technology you can allow one-way data transfer without compromising the confidentiality and integrity of the air-gapped network. Using a single fiber-optic connection with the EAL7+ certified module, the data diode ensures one way data transfer between separated networks of the same or different classification.

While data is only allowed to pass in one direction, it can never be transmitted the opposite way. This means that no intruders can use the connection to remotely access or steal data from your critical network.



Cross Domain Solutions

Software vs. hardware solution

	FIREWALL	SOFTWARE DATA DIODE	ARBIT DATA DIODE
100% protection against data theft	No	No	Yes
100% protection against hackers	No	No	Yes
Secure one-way connection	No	No	Yes
Protected by laws of physics	No	No	Yes



The Arbit Data Diode is a physical data diode that establishes a secure one-way connection. The transmission is handled by two dedicated servers.

The Arbit Data Diode offers a physical seamless one way data connection, maintaining full galvanic network separation (no covert channel possible). Therefore, the Arbit Data Diode is even safer than manual data transfer yet offers the same convenience as a normal network connection.



The Arbit Data Diode has received the Common Criteria EAL 7+ certification and meets the ISO-15408 requirements.

The Arbit Data Diode is accredited NATO COSMIC TOP SECRET, EU TOP SECRET and YDERST HEMMELIGT by CFCS, DK





BENEFITS



- ✓ 100% secure hardware data diode
- ✓ Full galvanic separation
- ✓ High Throughput and transfer rate
- ✓ High stability and low TCO and maintenance
- ✓ Proven track record for 15 years
- ✓ User-friendly web interface
- ✓ Powerful add-ons to control content moving through the data diode
- ✓ Full integration with OPSWAT advanced anti-malware platform

FEATURES

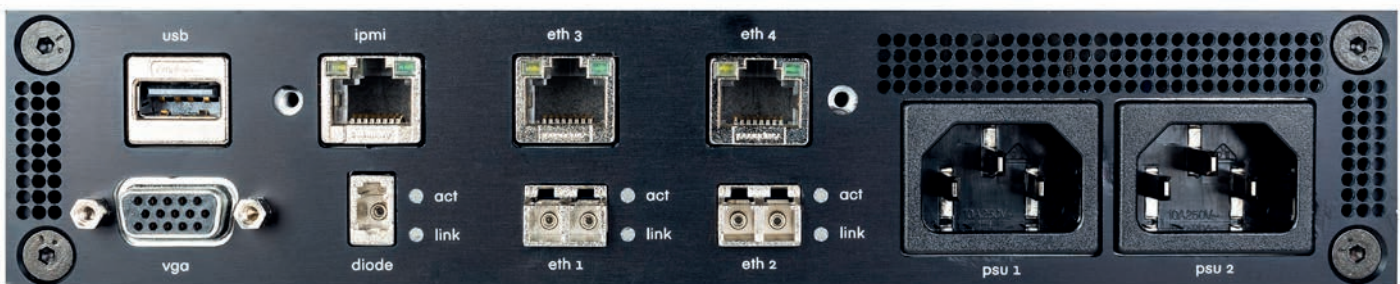


- ✓ 1 GbE or 10 GbE versions (both Common Criteria EAL7+ certified)
- ✓ Accredited NATO COSMIC TOP SECRET and EU TOP SECRET
- ✓ No maximum file size (only limited by disk space on proxy servers)
- ✓ 64 data channels per diode
- ✓ Data channel priority (on transaction basis)
- ✓ Supports up to 24 streaming channels (logging, video, radio via UDP)
- ✓ High availability with peer-to-peer recovery
- ✓ Syslog and notifications by email
- ✓ Software runs on hardened Linux

SUPPORTED PROTOCOLS



- ✓ Mail (SMTP)
- ✓ Simple File Transfer (FTP, SFTP)
- ✓ Windows share forwarding (SMB)
- ✓ Windows share mirroring (SMB)
- ✓ Network File System share forwarding (NFS)
- ✓ Network File System share mirroring (NFS)
- ✓ Time synchronization (NTP)
- ✓ Streaming (TCP, UDP)
- ✓ REST API Forwarder (HTTP, HTTPS)
- ✓ OPSWAT Integrations



Identical interfaces on the sending side (Pitcher) and receiving side (Catcher) of the data diode.

ARBIT REFERENCE CUSTOMERS

The Agency for
Governmental IT Services
www.statens-it.dk/english

Danish Ministry of Defence
Acquisition and Logistics
Organisation
www.fmi.dk/eng

TERMA
www.terma.com

Kongsberg
www.kongsberg.com

ARBIT CYBER DEFENCE SYSTEMS APS