



## Protecting the Security, Integrity and Availability of Critical Assets

Industry 4.0 and the growth of the Internet Of Things has been the driving force towards the convergence of computer networks and increased connectivity. However, when integrating these networks, a lot of cyber risks are aggregated. A solution that can maintain the “air-gap” among these networks while regulating legitimate data to flow is required to address these challenges.

Data Diode is a unidirectional communication and data transfer gateway that enables organizations to transfer data securely across physically separated networks without the risks of any data leakage. The high performance solution comes in a compact design that integrates seamlessly with users’ operational environments. The security design prevents data leakage and eliminates cyber threats by enforcing the one-way data transfer at both the physical and protocol layers. It complements Miltope's suite of cybersecurity solutions to enhance the security and resilience of Information Technology and Industrial Control System/Supervisory Control and Data Acquisition infrastructures against cyber attacks.

### Key Features

#### Information Assurance by Design

- Ensures no data leakage. Separate power supply to mitigate against side-channel attacks.
- Certified under Common Criteria (CC EAL4+).

#### High Throughput and Robust Performance

- Files lost detection capability.
- Configurable for High Availability.

#### Ease of System Integration and Customisation

- Supports an array of IT, IoT and ICS/SCADA networking protocols for system integration and interoperability.

#### Compact Design

- Allows all functionalities to be encapsulated within a compact footprint.

## Specifications

Operational Feature	Specifications	
<b>Support for variety of network and data replication protocols</b>	TCP, UDP, SYSLOG, SNMP Traps, HTTP, HTTP(S), Probe Mode Folders Mirroring (SMB, SAMBA), SFTP, FTP(S), SMTP OPC UA, Kafka, PI System, MQTT, RTSP	
<b>Operational &amp; Management</b>	Built-in Data Diode operational health monitoring files, PI Point & SNMP trap for alerts Can send SYSLOG, Email(SMTP), NTP Synchronisation over Data Diode Self-Service configuration Portal	
<b>Security Certification</b>	CC EAL 4+ certified	
<b>Model</b>	<b>3283 (1U)</b>	<b>3284 (2U)</b>
<b>Dimensions and Weight</b>		
Height	4.40cm	4.36cm
Width	43.84cm	44.20cm
Depth	60.00cm	29.83cm
Weight	12.9kg	4.1kg (per server)
<b>Power</b>		
Type/Watts	Two x 650 W (One PSU per node)	Up to two x 300 W
Input	AC 110 to 240 V @ 50/60 Hz	AC 110 to 240 V @ 50/60 Hz
<b>Memory &amp; Hard Disk</b>	8 GB RAM (Up to 64 GB) 500 GB (expandable)	8 GB RAM (Up to 32 GB) 500 GB (expandable)
<b>Network Interfaces</b>		
Production Port (Data)	1 x 1 GbE (RJ-45) and 1 x 10 GbE (SFP+)	1 x 1/10 GbE (expandable to 7 x 1 GbE (RJ-45) ports)
Management Port	1 x 1 GbE (RJ-45) (per node)	1 x 1 GbE (RJ-45)
<b>Throughput</b>	500 Mbps	
<b>Environment</b>		
Operating	Temperature: 0 to 40°C Humidity: 5% to 90% RH	Temperature: 0 to 45°C Humidity: 20% to 90% RH
Storage	Temperature: -20 to 70°C Humidity: 5% to 95% RH	Temperature: -20 to 70°C Humidity: 5% to 90% RH
<b>Export Control &amp; Customs</b>	Harmonised System (HS) code - 8517.62.61	

