



Data Diode

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.

DigiSAFE Data Diode is a unidirectional communication and data transfer gateway that enables organisations 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 ST Engineering Electronics’ 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 due to hardware-enforced one-way communication

Certified under National IT Evaluation Scheme (NITES) by Cyber Security Agency of Singapore (CSA)

Compact Design

Allows all functionalities to be encapsulated within a compact footprint

High Throughput and Robust Performance

Files lost detection capability

Configurable for High Availability

Ease of System Integration and Customisation

Supports an array of IT and SCADA/ICS networking protocols for system integration and interoperability

Specifications

Operational Feature	Specifications			
Support for variety of network protocols	<ul style="list-style-type: none"> · TCP, UDP, SYSLOG, SNMP · Folders Mirroring (SMB, SAMBA, CIFS) · SFTP, SMTP, OPC 			
Throughput	<ul style="list-style-type: none"> · Up to 9 Gbps 			
Operation & Management	<ul style="list-style-type: none"> · Built-in Data Diode operational health monitoring · Can send SYSLOG, Email & SNMP out for alerts · NTP Synchronisation over Data Diode · Self-Service configuration Portal 			
Hardware Specification	V1 (2U)	V2 (1U)	V3 (1U)	V4 (2U)
Certification	NITES certified by CSA Singapore	NITES & CC (under review)	NITES & CC (under review)	NITES & CC (under review)
Dimensions and Weight				
Height	4.30 cm	4.32 cm	4.40 cm	4.36 cm
Width	43.50 cm	43.00 cm	43.84 cm	44.20 cm
Depth	57.60 cm	54.50 cm	60.00 cm	29.83 cm
Weight	8.6 - 13.7 kg (per server)	14.0 kg	12.9 kg	4.1 kg (per server)
Power				
Type/Watts	One fixed 300 W; or two hot-swap 460 W	One x 70 W (per node)	One x 650 W (per node)	Up to 2 x 300 W
Input	AC 100 to 240 V	AC 125 to 250 V	AC 110 to 240 V	AC 110 to 240 V
Hard Disk	480 GB	512 GB	512 GB	512 GB
Network Interfaces	2 x GbE ports for Data and Management Interfaces	2 x SFP GbE and 1 x SFP 10 GbE Port for Data and Management Interface (per node)	2 x GbE RJ-45 ports for Data and Management Interface (per node)	1 x SFP GbE and 1 x GbE RJ-45 port for Data and Management Interface
Export Control & Customs	Harmonised System (HS) code - 8517.62.61			

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