

ST Engineering Data Diode



保護關鍵資產的安全性、完整性和可用性

ST Engineering Data Diode 是一種適用於單向資料傳輸的解決方案，同時確保來源端網路和目的端網路之間的“air-gap”實體分離運作。隨著世界各地越來越多的城市和企業不斷的優化技術以獲得更好地營運和管理服務，所產生的資料量只會持續增加。

ST Engineering Data Diode 不僅可以實現即時的資料傳輸，同時還可以消除網路威脅並維持這些網路之間的分離。ST Engineering Data Diode 補足了 ST Engineering 提供的網路安全解決方案套件。

主要特點

確保資訊安全的設計

- 透過硬體強化設計為僅能單向傳輸，可確保資料無遺失。
- *通過新加坡網路安全局 (CSA) 的 Common Criteria (CC EAL 4+) 和 NITES 認證。

採用專利技術強化效能

- 獲得專利的 SFP+ 確保高效能單向通訊。
- 文件遺失檢測功能。

易於系統整合和客製化

- 與 Management Portal 整合，便於部署、操作和維護。
- 堆疊式硬體架構易於整合第三方解決方案。

緊湊設計

- 將所有功能封裝在單一緊湊的空間中，減少部署時所需的配置。

*Pending certification by 2022

Specifications

Operational Feature	Specifications	
Support for a variety of network and data replication protocols	TCP, UDP, SYSLOG, SNMP Traps, HTTP, HTTP(S), Probe Mode Folders Mirroring (SMB, SAMBA), FTP, SFTP, SMTP OPC UA, Kafka, PI System, MQTT, RTSP	
Operational & Management	Built-in Data Diode operational health monitoring Can send SYSLOG, Email(SMTP), files, PI Point & SNMP trap for alerts NTP Synchronisation over Data Diode Self-Service Configuration Portal	
Security Certification	*CC EAL 4+ certified by CSA Singapore	
Model	5282	5283
Dimensions and Weight		
Height	4.4cm	4.4cm
Width	43cm	43cm
Depth	76cm	76cm
Weight	10.6kg	11.8kg
Power		
Type/Watts	300 W with redundancy	300 W with redundancy
Input	AC 100 to 240 V @ 50/60 Hz 5A Max	AC 100 to 240 V @ 50/60 Hz 5A Max
Memory & Hard Disk	2 x 8 GB 2 x 1 TB (expandable)	2 x 8 GB, 2 x 16 GB 4 x 1 TB (expandable)
Network Interfaces		
Production Port (Data)	Per node 2 x 1 GbE (RJ45) or 2 x 10 GbE (SFP+) (teamed network)	
Management Port	Per node 1 x 1 GbE (RJ45)	
Unidirectional Media Transfer Rate	10 Gbps	10 + 10 Gbps
File Transfer Performance (Throughput)	End-to-end files transfer 1. High throughput of 5TB/day large file transfer 2. 200 files/sec small files transfer 3. No more than 1 file lost for every 5,000,000 files transferred	
Environment		
Operating	Temperature: 0 to 40°C Humidity: 10% to 95% RH	Temperature: 0 to 40°C Humidity: 10% to 95% RH
Storage	Temperature: -20 to 70°C Humidity: 10% to 95% RH	Temperature: -20 to 70°C Humidity: 10% to 95% RH
Export Control & Customs	Harmonised System (HS) code - 8517.62.61	
Safety Certifications	FCC, CE, UL+CB, BSMI, VCCI	
Shipping Dimensions & Weight		
Height	16cm	16cm
Width	60cm	60cm
Depth	88cm	88cm
Weight	14.2kg	15.4kg