AEC Data Diode

General Description

The core of the AEC Data Diode DD-S-E-001 Product lies in the hardware unit. This network solution enforces only one-way network connection. With it, you are guaranteed that state and company secrets remain confidential and that Industrial Control Systems (ICS) cannot be manipulated or compromised.

Physical Specifications

2 unit high rack mountable unit	
Casing dimensions H x W x D	88.9 x 434 x 437 mm
Front panel dimensions W x H	482.6 x 88.90mm
Weight (without two arm installation)	~6.4 kg
Casing material	Aluminum
Rear panel functions	Data input/output
Front panel functions	Power LEDs indicators

Power Specifications

Power inlet	IEC 60320-C14 (male)
Power input	85 - 260 VAC, 50 - 60 Hz
Power consumption	220 watt

Networking Features

1. SYSLOG UDP (SYSLOG over UDP)

2. Raw UDP (support raw UDP data stream)

3. SYSLOG TCP (SYSLOG over TCP)

4. Raw TCP (support raw TCP data stream)

5. FTP (File Transfer Protocol)

6. SFTP (Secure File Transfer Protocol)

7. SCP (Secure Copy Protocol)

8. OSIsoft PI (web PI-API)

Environment

Operating environment	10 °C - 35 °C
Storage environment	-40 °C - 60 °C
Humidity range	20 - 90 % (non-condensing)

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DD-S-E-001

Operates in a principle of unidirectional stream of data. By hardware, It can only send data in one direction using optical fiber.

The Data Diode SW accepts/initiates the connection requests as per the protocol functionality and terminates full duplex protocols by permitting only one-way traffic through the Data Diode.

The SW is designed to handle high speed data flows simultaneously and is capable of transferring the data securely to the specified destination.

Rear Panel Interfaces:

Interfaces	
Power Switch	Two power switches, one for the low side, and the second for the high side.
Power Inlet	2 independent power sockets for the low side, and the high side.
USB port	A total of 4 ports, 2 ports for the low side, and 2 ports for the high side.
VGA Interface	A total of 2 VGA ports, 1 for the low side, and another for the high side.
Admin Interface	A total of 2 admin ports, 1 for the low side, and another for the high side.
Data IN/Out ports	**DD-S-E-001:** 1Gbps Ethernet interface (RJ45) **DD-H-F-001:** 10Gbps Fiber interface (LC)