Data Diode DD1000A

High security one-way data flow

SecuriCDS® DD1000A is a data diode with optical unidirectional data flow to ensure physical separation in one direction. DD1000A offers a high-performance data diode compliant with the most demanding security and assurance requirements. Enabling digitalisation without compomising security.

Main benefits

- Physical separation using optical technology
- Fulfil compliance with internal and regulatory security requirements
- Hardware-only device, no configuration needed
- National approval for security levels up to and including HEMLIG/TOP SECRET

One-way data flow guaranteed

The SecuriCDS® DD1000A takes data protection to a higher level, offering a powerful solution for efficient and assured one-way data transfer between security domains.

DD1000A provides confidentiality for classified networks and systems as well as integrity and availability for production networks.

Full Gigabit Ethernet wire speed

The DD1000A offers full Gigabit data throughput in a half-width 19" rack form factor for Ethernet-based networks. All data on the source network will be automatically transferred to the destination network regardless of overlaying network protocol.

Hardware only security

The SecuriCDS® DD1000A is designed in hardware only and has no software installed. Optical separation ensures the unidirectional security function.

There is no configuration to be made and therefore the device cannot be misconfigured, assuring the unidirectional security function is always applied.

High assurance solution

The SecuriCDS® DD1000A is a high security product approved by the Swedish authorities for information up to HEMLIG/TOP SECRET. Meeting the highest demands on both security and assurance.

Technical specification

Model characteristics

Device type	Gigabit Ethernet data diode
Installation	Tabletop or rack mount (1U half-width in a 19" rack system)
Physical security	Tamper evident casing Inner enclosure to reduce compromising emanations
Performance	1 Gbps network interfaces
Supported protocols	Unidirectional protocols, e.g. UDP, RTP, Syslog

Mechanical and environmental

Dimensions	167 mm (D) x 216 mm (W) x 43.4 mm (H)
Weight	2.2 kg
Casing material	Metal
Cooling	Passive (fanless)
Operating temperature	0°C to +50°C, 5-95% RH non-condensing
Storage and transport temperature	-20°C to +60°C, 5-95% RH non-condensing
Physical security	Tamper evident casing Inner enclosure to reduce compromising emanations

Interfaces and connectors

Input voltage	+12 VDC (External power supply, PSU included) Separate power inlets for upstream and downstream interfaces, power bridge cable included
Power supply options	1x or 2x 90-260 VAC / 12 VDC (1x Power supply rating 15 W included)
Power consumption	5 W
Network data ports	2x Gbit Ethernet (RJ45)
Supported standards	IEEE 802.3ab,1000Base-T with Auto MDI/MDIX

Regulatory compliance

Regulatory compliance	DD1000A
CE	Compliance with applicable directives for EU
Environmental	REACH, RoHS, WEEE
Security certification	Swedish national approval – Component assurance level N3

advenica

Swedish cybersecurity
at your service

Advenica provides cybersecurity solutions within encryption and network segmentation with the highest level of EU-and national approvals. We were founded in 1993 and are based in Malmö, Sweden, where most of our products are designed, developed, and manufactured. Advenica specialises in the sectors of defence, authorities, infrastructure, and industry. With decades of experience working with Sweden's national security, Advenica is known for delivering cybersecurity with exceptional service.

Read more at advenica.com

ISO 9001
CERTIFIED
ISO 14001
CERTIFIED