

OPSWAT.

Unidirectional Security Gateway and Data Diode Guide

Critical Infrastructure Protection Solutions



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Select the Best Unidirectional Security Gateway to Protect your Critical Infrastructure – OPSWAT Unidirectional Security Gateway and Data Diode Comparison Guide

A unidirectional security gateway is a cybersecurity solution combining hardware and software that ensures one way (unidirectional) information transfer between two networks. Unidirectional security gateways, also known as security gateways and unidirectional gateways, are the modern evolution of data diodes. Traditionally relying upon a fiber optic connection to enforce one way data transfers, data diodes may encounter transmission reliability issues and data overruns, while modern unidirectional security gateways include assured delivery mechanisms to overcome these challenges. The solutions have been common for decades in high-security environments, such as defense and intelligence agency facilities.

With the rise of industrial IoT and digitization, unidirectional security gateways are increasingly being deployed by private enterprises to securely transmit data generated by industrial control and safety systems for nuclear power plants and other electrical power generating facilities, manufacturing facilities, and transport systems to other networks (including the public Internet) while protecting the networks containing these systems from attack.

OPSWAT MetaDefender™ can be easily integrated with OPSWAT's NetWall™ Unidirectional Security Gateway, as well as solutions from many leading vendors to provide a higher level of security and visibility over the data brought into your organization. Data first enters through MetaDefender Kiosk where a user with predetermined security clearance is allowed to scan data inserted into the Kiosk with MetaDefender Core Multiscanning, Deep Content Disarm and Reconstruction (CDR), Proactive Data Loss Prevention (DLP), and File-Based Vulnerability Assessment technologies.

If no threats are found, the data is allowed to pass through the unidirectional security gateway and enter the secure network where it is stored in MetaDefender Vault. The user can then access the allowed files. Any files brought into the organization are logged in MetaDefender Vault for audit purposes.

The research needed to select the right unidirectional security gateway for your use case and environment can be daunting. To make this process easier, we did the research for you and consolidated it in one place.

This newly updated version of the guide contains comparative information on the features of over 30 industry-leading data diode products, including:

- Product description
- Value proposition
- Technology
- Certifications awarded
- Supported transfer protocols
- Supported encryption standards
- Throughput
- Data masking capabilities
- Physical dimensions
- Sales and support contact information
- Guest user support
- Documented integration with OPSWAT MetaDefender

For more information about MetaDefender Kiosk, MetaDefender Vault, and the Unidirectional Security Gateway and Data Diode vendors integrated with OPSWAT please [contact us](#).

Product	OPSWAT NetWall™ USG [Unidirectional Security Gateway]
Technology	Electrical – serial non-networked connection
Product Description	NetWall USG provides access to real-time OT data and enables secure data transfers to the OT environment without compromising the security and integrity of your critical production systems, providing assured delivery scalability, and ease of deployment.
Unique value proposition	<ul style="list-style-type: none"> Assured delivery mechanism for reliable operation and bandwidth conservation Scalable bandwidth supporting up to 10Gbit/sec using a license upgrade Supports real-time replication of industrial data, Industrial/IT protocols, file transfers Cost-effective, easy to deploy pre-configured platform Available as Hardware as a service: Platinum Support, HW updates every 3yrs
SKU	#NWAPP-50M-UNI, #NWAPP-100M-UNI, #NWAPP-1G-UNI, #NWAPP-10G-UNI
Certifications	<ul style="list-style-type: none"> OPSWAT Certifications: Common Criteria EAL, ISO 27001, SOC2, PCI-DSS NetWall Certifications: CE, FCC, EN 61131, EN 60950, C-Tick Approved 62443-4-1; SVV-1, SVV-2, SVV-3a, SVV-3b, SVV-3c, SVV-4, SVV-5
Transfer Protocols	Industrial Protocols [Modbus, OPC, MQTT-SN], IT Protocols, IT Monitoring Applications [SIEM Integration, Syslog], File Transfers [FTP, Windows File Share, SMB]
Encryption standards	Security Dongles
Transfer rate	50Mbit/s, 100Mbit/s, 1Gbit/s, 10Gbit/s
Guest Mode	Yes, compatible with MetaDefender Kiosk Vault guest mode
Data masking	NetWall utilizes a full protocol break between the networks and removes identifying IP header information from the payload, maintaining the integrity of the OT network.
MD Kiosk Integration	Fully compatible with MetaDefender Kiosk
MD Vault Integration	Fully compatible with MetaDefender Vault
Physical Dimension	Two x 1U rack mounted servers, each: W:19in / 482.6mm x H: 1.75" /44.45mm x D: 22.6in / 584.2mm
Weight	2 x 27lb / 12.2kg, each
Voltage	Input: 100-240 VAC, auto-ranging <ul style="list-style-type: none"> Power supply 250W Estimated consumption 150W (each 1U)
Operating temp	<ul style="list-style-type: none"> Storage: -40 to +149 F / -40 to +65 C Operating: +50 to +95 F / +10 to +35 C Up to 95% storage humidity, 10% to 80% operating humidity non-condensing
Input/output support	Separate Ethernet connections for network traffic and remote administration <ul style="list-style-type: none"> Physical connectors: 8P8C [RJ45]
Content filtering	Full integration with MetaDefender Core – Multi-AV, CDR, DLP, File Vulnerabilities, IP Reputation, URL Reputation, Sandbox, Malware Analysis
Export restrictions	Global availability

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Main Markets Served

Global

OPSWAT.

Product	OPSWAT NetWall™ BSG [Bilateral Security Gateway]
Technology	Electrical – serial non-networked connection
Product Description	NetWall USG provides access to real-time OT data and enables secure data transfers to the OT environment without compromising the security and integrity of your critical production systems, providing assured delivery scalability, and ease of deployment.
Unique value proposition	<ul style="list-style-type: none"> Assured delivery mechanism for reliable operation and bandwidth conservation Proprietary mechanism to permit data replies for select applications Scalable bandwidth supporting up to 1Gbit/sec using a license upgrade Supports real-time replication of industrial data, Industrial/IT protocols, file transfers Cost-effective, easy to deploy pre-configured platform Available as Hardware as a service: Platinum Support, HW updates every 3yrs
SKU	#NWAPP-50M-BI, #NWAPP-100M-BI, #NWAPP-1G-BI
Certifications	<ul style="list-style-type: none"> OPSWAT Certifications: Common Criteria EAL, ISO 27001, SOC2, PCI-DSS NetWall Certifications: CE, FCC, EN 61131, EN 60950, C-Tick Approved 62443-4-1; SVV-1, SVV-2, SVV-3a, SVV-3b, SVV-3c, SVV-4, SVV-5
Transfer Protocols	Industrial Historian Replication, Relational Database Replication, Industrial Protocols (Modbus, OPC, MQTT-SN), IT Protocols, IT Monitoring Applications (SIEM Integration, Syslog), File Transfers (FTP, Windows File Share, SMB)
Encryption standards	Security Dongles
Transfer rate	50Mbit/s, 100Mbit/s, 1Gbit/s, 10Gbit/s
Guest Mode	Yes, compatible with MetaDefender Kiosk Vault guest mode
Data masking	NetWall utilizes a full protocol break between the networks and removes identifying IP header information from the payload, maintaining the integrity of the OT network.
MD Kiosk Integration	Fully compatible with MetaDefender Kiosk
MD Vault Integration	Fully compatible with MetaDefender Vault
Physical Dimension	Two x 1U rack mounted servers, each: W:19in / 482.6mm x H: 1.75" /44.45mm x D: 22.6in / 584.2mm
Weight	2 x 27lb / 12.2kg, each
Voltage	Input: 100-240 VAC, auto-ranging <ul style="list-style-type: none"> Power supply 250W Estimated consumption 150W (each 1U)
Operating temp	<ul style="list-style-type: none"> Storage: -40 to +149 F / -40 to +65 C Operating: +50 to +95 F / +10 to +35 C Up to 95% storage humidity, 10% to 80% operating humidity non-condensing
Input/output support	Separate Ethernet connections for network traffic and remote administration <ul style="list-style-type: none"> Physical connectors: 8P8C (RJ45) Supports speeds of: 50Mbit/s, 100Mbit/s, 1Gbit/s, 10Gbit/s
Content filtering	Full integration with MetaDefender Core – Multi-AV, CDR, DLP, File Vulnerabilities, IP Reputation, URL Reputation, Sandbox, Malware Analysis
Export restrictions	Global availability

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Main Markets Served

Global

advenica

Product	SecuriCDS Data Diode DD1000i
Diode Technology	Optical. Hardware based optical separation to assure unidirectional data flow. Includes separated proxy servers on up- and downstream sides to handle application level protocols unidirectional.
Product Description	SecuriCDS DD1000i Unidirectional Security Gateway includes integrated server hardware for proxies and can be mounted in a 19" rack system (height: 1U).
Unique value proposition	Takes data protection to a higher level. Secure data transfer between networks. Proxies are designed and tested for interacting with highly sensitive information.
SKU	BSF-DD16472
Certifications	<ul style="list-style-type: none"> Sweden: DD1000i data diodes have received approval for data transfer between networks of different security levels up to and including the level of HEMLIG/TOP SECRET Finland: NCSC-FI determines that the DD1000i data diode can be used for data transfer between networks of different security levels up to and including the level of SALAINEN/SECRET. Austria: DD1000i have received national security accreditation level AUT GEHEIM/ SECRET from the Bundesministerium für Landesverteidigung (BMLV).
Transfer Protocols	<ul style="list-style-type: none"> Standard: UDP, TCP, Syslog, NTP File transfer: FTP, SFTP, NFS, SMB Email transfer: SMTP, POP3
Encryption standards	<ul style="list-style-type: none"> Encryption standard fail over and services/protocols main according to protocol SFTP Certificate handling Signed software
Transfer rate	1 Gbps
Guest Mode	-
Data masking	Yes, but not 3rd party tested
MD Kiosk Integration	Yes
MD Vault Integration	Yes
Physical Dimension	1U (43.4 mm), 437 x 504 mm
Weight	9 kg
Voltage	2x 100-240 V AC, 50-60Hz (Separate power inlets for Upstream and Downstream interfaces)
Operating temp	+5° - +40°C, 8% - 90% RH non-condensing IEC 60721-3-3 (3K3/3Z1/3B1/3C1/3S1/3M2)
Input/output support	Network data ports (Upstream + Downstream): 2x Gigabit Ethernet 8P8C (RJ45) Administration (Upstream, Downstream): 2x Gigabit Ethernet 8P8C (RJ45), VGA, USB 2.0
Content filtering	Sandboxing via OPSWAT, CDR, DLP Check Calle
Export restrictions	Global availability under certain conditions

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Main Markets Served

EU & EMEA

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Product	SecuriCDS Data Diode DD1000A
Diode Technology	Optical. Pure hardware based data diode with optical separation.
Product Description	The DD1000A offers high performance in a small package.
Unique value proposition	A pure hardware based data diode with optical separation to assure the unidirectional data flow in a small stand alone 1U package.
SKU	BSF-DD16473
Certifications	<ul style="list-style-type: none"> Sweden: DD1000i data diodes have received approval for data transfer between networks of different security levels up to and including the level of HEMLIG/TOP SECRET Austria: DD1000i have received national security accreditation level AUT GEHEIM/ SECRET from the Bundesministerium für Landesverteidigung (BMLV).
Transfer Protocols	<ul style="list-style-type: none"> Layer 2 diode e.g. unidirectional protocols, e.g. UDP External proxy servers may be required
Encryption standards	N/A only HW diode
Transfer rate	1 Gbps
Guest Mode	-
Data masking	Yes, but not 3rd party tested
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	1U (43.4 mm), 216 x 167 mm
Weight	2.2 kg
Voltage	1x or 2x 12 V DC (Separate power inlets for upstream and downstream interfaces. External power supply included.
Operating temp	0 - +50°C, 20% - 90% RH non-condensing IEC 60721-3-3 (3K3/3Z1/3B1/3C1/3S1/3M2)
Input/output support	Network data (Upstream + Downstream) 2x Gigabit Ethernet 8P8C (RJ45)
Content filtering	N/A
Export restrictions	Global availability under certain conditions

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Main Markets Served

EU & EMEA

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Product	SecuriCDS Data Diode DD1G
Diode Technology	Optical. Pure hardware based data diode with optical separation.
Product Description	DD1G series offer high performance and secure data transfer for IT/OT integration.
Unique value proposition	Offers full 1 Gbps data throughput and includes stand alone devices and DIN rail mounting.
SKU	BSP-DD18605
Certifications	Under evaluation
Transfer Protocols	<ul style="list-style-type: none"> Layer 2 diode e.g. unidirectional protocols, e.g. UDP External proxy servers may be required
Encryption standards	N/A only HW diode
Transfer rate	1 Gbps
Guest Mode	-
Data masking	No
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	DD1G: 130x20x150 (WxHxD)
Weight	0.6 kg
Voltage	1x or 2x 12 V DC [Redundant power inlets] External power supply included 1x 90-264VAC / 12VDC Depending on your requirements, one or two power supplies may be used to power DD1G
Operating temp	0 - +50°C, 20% - 90% RH non-condensing IEC 60721-3-3 [3K3/3Z1/3B1/3C1/3S1/3M2]
Input/output support	Network data [Upstream + Downstream] 2x Gigabit Ethernet 8P8C [RJ45]
Content filtering	N/A
Export restrictions	Global availability under certain conditions

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Main Markets Served

EU & EMEA



Product	Arbit Data Diode 1 Gbps
Diode Technology	Optical
Product Description	The Arbit Data Diode moves data from an insecure network to a secure network - no backflow possible.
Unique value proposition	Maintains galvanic network separation during seamless manual- and/or automated data exchange between networks of different classification. Several filters and add-ons available.
SKU	arbitcds.com/sku/arbit_data_diode.jpg
Certifications	Common Criteria EAL5+, NATO IAPC, DK Center for Cyber Security NATO SECRET / National SECRET, ISO-15408
Transfer Protocols	SMTTP, FTP, SFTP, SMB, NFS forwarding and mirroring, NTP, TCP, UDP, REST API Forwarder HTTP and HTTPS, NiFi, SysLog, Windows Share.
Encryption standards	N/A
Transfer rate	1 Gbps
Guest Mode	Yes, if required, standard setup
Data masking	TEMPEST SDIP-27 level A,B and C on request
MD Kiosk Integration	Yes
MD Vault Integration	Yes and even Vault to Vault (documentation not published)
Physical Dimension	2x1U 19"
Weight	9.6 Kg
Voltage	110/220 V AC
Operating temp	0-35 °C
Input/output support	Fiber or copper connectors on input / output on req
Content filtering	OPSWAT Partner, MetaDefender, Deep CDR, Egate,SANDBOX etc. (Windows and LINUX) + any 3rd party filter (REST API integration)
Export restrictions	N/A

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Main Markets Served

EMEA, NATO, via partners or on request



Product	Arbit RUGGEDIZED C4ISTAR Gateway
Diode Technology	Optical
Product Description	A RUGGEDIZED C4 gateway designed for the battlefield built to withstand the harshest conditions over the long haul.
Unique value proposition	Seamless manual and/or automated release of data between networks of different classification (HIGH=>LOW, LOW=>HIGH, C4ISTAR role). Several filters and add ons available
SKU	arbitcds.com/sku/arbit_ruggedized_gateway.jpg
Certifications	Numerous Environmental Specification tests according to MIL-STD
Transfer Protocols	All filebased exchange.
Encryption standards	N/A
Transfer rate	180 Mbps
Guest Mode	Yes, if required, standard setup
Data masking	TEMPEST SDIP-27 level A,B and C on request
MD Kiosk Integration	Yes
MD Vault Integration	Yes and even Vault to Vault (documentation not published)
Physical Dimension	2x1U 19"/2
Weight	4x 4 kg (4x 8.9 lbs)
Voltage	12 to 32V DC
Operating temp	55 °C (131 °F) -40 (-40 °F)
Input/output support	Fiber-fiber or fiber-copper from HIGH to LOW
Content filtering	NA OPSWAT Partner, MetaDefender, Deep CDR, Egate,SANDBOX etc. (Windows and LINUX) + any 3rd party filter (REST API integration)
Export restrictions	N/A

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Main Markets Served

EMEA, NATO, via partners or on request



Product	Arbit RUGGEDIZED Data Diode1 Gbps
Diode Technology	Optical
Product Description	A ruggedized version of the Arbit Data Diode that moves data from an insecure network to a secure network - no backflow possible.
Unique value proposition	Maintains galvanic network separation during seamless manual- and/or automated data exchange between networks of different classification. Several filters and add-ons available.
SKU	arbitcds.com/sku/arbit_ruggedized_data_diode.jpg
Certifications	Numerous Environmental Specification tests according to MIL-STD
Transfer Protocols	SMTP, FTP, SFTP, SMB, NFS forwarding and mirroring, NTP, TCP, UDP, REST API Forwarder HTTP and HTTPS, NiFi, SysLog, Windows Share.
Encryption standards	N/A
Transfer rate	1 Gbps
Guest Mode	Yes, if required, standard setup
Data masking	TEMPEST SDIP-27 level A,B and C on request
MD Kiosk Integration	Yes
MD Vault Integration	Yes and even Vault to Vault [documentation not published]
Physical Dimension	1U 2x19"/2
Weight	2x 4 kg [2x 8.9 lbs]
Voltage	12 to 32V DC
Operating temp	55 °C [131 °F] -40 [-40 °F]
Input/output support	Fiber connectors
Content filtering	OPSWAT Partner, MetaDefender, Deep CDR, Egate,SANDBOX etc. (Windows and LINUX) + any 3rd party filter (REST API integration)
Export restrictions	N/A

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Main Markets Served
EMEA, NATO, via partners or on request



Product	Arbit TRUST Gateway
Diode Technology	Optical
Product Description	The Arbit TRUST Gateway is designed to support release of data from High Security networks, supporting organisational procedures.
Unique value proposition	Seamless manual and/or automated release of data between networks of different classification [HIGH=>LOW, LOW=>HIGH,]. Several filters and add ons available
SKU	arbitcds.com/sku/arbit_TRUST_gateway.jpg
Certifications	Common Criteria EAL5+, ISO-15408
Transfer Protocols	All filebased exchange.
Encryption standards	N/A
Transfer rate	180 Mbps
Guest Mode	Yes, if required, standard setup
Data masking	TEMPEST SDIP-27 level A,B and C on request
MD Kiosk Integration	Yes
MD Vault Integration	Yes and even Vault to Vault [documentation not published]
Physical Dimension	4x1U 19"
Weight	19.2 Kg
Voltage	110/220 V AC
Operating temp	0-35 °C
Input/output support	Fiber or copper connectors on input / output on req
Content filtering	OPSWAT Partner, MetaDefender, Deep CDR, Egate,SANDBOX etc. (Windows and LINUX) + any 3rd party filter (REST API integration)
Export restrictions	None

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Main Markets Served

EMEA, NATO, via partners or on request



Product	DataFlowX 1G
Diode Technology	Optical
Product Description	DataFlowX is an information exchange gateway with extensive security and integration feature set. Regarding to the new network-centric era, DataFlowX provides a turn-key solution for cross-domain security by bringing a new perspective to the data diode concept.
Unique value proposition	<ul style="list-style-type: none"> Policy and rule based file check and transmission control. Data classification and tagging by type, content or meta-data. XML, JSON and YAML validation with specific schemes. One-way Web API mirroring. Data encryption, compression and data masking. LDAP integration on both sides. Web based UI for management and file transmission services. Inbound and outbound SMTP integration. Quarantine and Archive feature. VRRP and LACP support. TX and RX Modules can be configured with different security policies.
SKU	DFX-1G-P
Certifications	Common Criteria EAL 4+ (AVA_VAN.5)
Transfer Protocols	SFTP/SCP, HTTP/HTTPS, UDP, SYSLOG, SMTP, WSUS Updates, File/Directory Mirroring
Encryption standards	AES
Transfer rate	940 Mbps
Guest Mode	* This feature is under development but not released yet.
Data masking	Optional
MD Kiosk Integration	* This feature is not tested yet but seems MetaDefender Kiosk supports sending Processed files via SFTP service of DataFlowX (both with user-prompted logon and predefined credentials)
MD Vault Integration	No
Physical Dimension	1U Rack Unit (W7.2", H1.7", D23.5")
Weight	22.0 kg
Voltage	<ul style="list-style-type: none"> 200-240Vac / 4.5 - 3.8A / 50-60Hz Redundant Power Supply
Operating temp	10°C ~ 35°C
Input/output support	<ul style="list-style-type: none"> RJ45 Copper SFP SFP+
Content filtering	<ul style="list-style-type: none"> Data masking with custom pattern PDF and Microsoft Office files content disarm by JS, Link, Macro, OLE Object removal Embedded multiple antivirus engines.
Export restrictions	No

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Main Markets Served

EMEA, NATO-Zone, Central Asia,
Europe



Product	DataFlowX 10G
Diode Technology	Optical
Product Description	DataFlowX is an information exchange gateway with extensive security and integration feature set. Regarding to the new network-centric era, DataFlowX provides a turn-key solution for cross-domain security by bringing a new perspective to the data diode concept.
Unique value proposition	<ul style="list-style-type: none"> Policy and rule based file check and transmission control. Data classification and tagging by type, content or meta-data. XML, JSON and YAML validation with specific schemes. One-way Web API mirroring. Data encryption, compression and data masking. LDAP integration on both sides. Web based UI for management and file transmission services. Inbound and outbound SMTP integration. Quarantine and Archive feature. VRRP and LACP support. TX and RX Modules can be configured with different security policies.
SKU	DFX-10G-P
Certifications	Common Criteria EAL 4+ (AVA_VAN.5)
Transfer Protocols	SFTP/SCP, HTTP/HTTPS, UDP, SYSLOG, SMTP, WSUS Updates, File/Directory Mirroring
Encryption standards	AES
Transfer rate	5.5 Gbps
Guest Mode	* This feature is under development but not released yet.
Data masking	Optional
MD Kiosk Integration	* This feature is not tested yet but seems MetaDefender Kiosk supports sending Processed files via SFTP service of DataFlowX (both with user-prompted logon and predefined credentials)
MD Vault Integration	No
Physical Dimension	1U Rack Unit (W7.2", H1.7", D23.5")
Weight	22.0 kg
Voltage	<ul style="list-style-type: none"> 200-240Vac / 4.5 - 3.8A / 50-60Hz Redundant Power Supply
Operating temp	10°C ~ 35°C
Input/output support	<ul style="list-style-type: none"> RJ45 Copper SFP SFP+
Content filtering	<ul style="list-style-type: none"> Data masking with custom pattern PDF and Microsoft Office files content disarm by JS, Link, Macro, OLE Object removal Embedded multiple antivirus engines.
Export restrictions	No

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Main Markets Served

EMEA, NATO-Zone, Central Asia,
Europe



Product	DataBrokerX 1G
Diode Technology	Optical
Product Description	DataBrokerX is the unique Protocol Broker for accessing HTTP Services at the external domains via data diodes. By using reverse installed DataFlowX diode sets, DataBrokerX may deliver HTTP requests and fetch responses without using any TCP-related communication.
Unique value proposition	<ul style="list-style-type: none"> HTTP/HTTPS protocol breaking and delivering via data diodes without any backward connection ability. Uses DFX diode cards to deliver and fetch data. Supports SSL interception Supports traffic logging Supports ACLs based on clients, request methods, targets. Traffic matching and content replacement. Supports several instances with different configurations and security policies. VRRP and LACP support
SKU	DBX-1G-P
Certifications	-
Transfer Protocols	HTTP, HTTPS, LDAP, LDAPS
Encryption standards	-
Transfer rate	900 Mbps
Guest Mode	N/A
Data masking	Optional
MD Kiosk Integration	N/A
MD Vault Integration	N/A
Physical Dimension	1U Rack Unit (W7.2", H1.7", D23.5")
Weight	22.0 kg
Voltage	<ul style="list-style-type: none"> 200-240Vac / 4.5 - 3.8A / 50-60Hz Redundant Power Supply
Operating temp	10°C ~ 35°C
Input/output support	<ul style="list-style-type: none"> RJ45 Copper SFP SFP+
Content filtering	N/A
Export restrictions	No

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Main Markets Served

EMEA, NATO-Zone, Central Asia,
Europe



Product	DataBrokerX 10G
Diode Technology	Optical
Product Description	DataBrokerX is the unique Protocol Broker for accessing HTTP Services at the external domains via data diodes. By using reverse installed DataFlowX diode sets, DataBrokerX may deliver HTTP requests and fetch responses without using any TCP-related communication.
Unique value proposition	<ul style="list-style-type: none"> HTTP/HTTPS protocol breaking and delivering via data diodes without any backward connection ability. Uses DFX diode cards to deliver and fetch data. Supports SSL interception Supports traffic logging Supports ACLs based on clients, request methods, targets. Traffic matching and content replacement. Supports several instances with different configurations and security policies. VRRP and LACP support
SKU	DBX-10G-P
Certifications	-
Transfer Protocols	HTTP, HTTPS, LDAP, LDAPS
Encryption standards	-
Transfer rate	3.6 Gbps
Guest Mode	N/A
Data masking	Optional
MD Kiosk Integration	N/A
MD Vault Integration	N/A
Physical Dimension	1U Rack Unit (W7.2", H1.7", D23.5")
Weight	22.0 kg
Voltage	<ul style="list-style-type: none"> 200-240Vac / 4.5 - 3.8A / 50-60Hz Redundant Power Supply
Operating temp	10°C ~ 35°C
Input/output support	<ul style="list-style-type: none"> RJ45 Copper SFP SFP+
Content filtering	N/A
Export restrictions	No

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Main Markets Served

EMEA, NATO-Zone, Central Asia,
Europe



Product	DataDiode
Diode Technology	Our data diode is a pure hardware unit with fiber optical connections to the proxy servers
Product Description	Cross-boundary network protection for Government, Defence, and Critical Infrastructure
Unique value proposition	Protect confidential information, IP and assets. Only worldwide Data Diode with active EAL7+ certification
SKU	Call for details
Certifications	EAL 7+, NATO, TOP SECRET, NITES
Transfer Protocols	SMB/CIFS, (S)FTP(E(S)), SCP, SMTP, NTP, TCP, UDP, Syslog, HTTP, local files, etc.
Encryption standards	All commonly used encryption schemes are supported.
Transfer rate	1 Gbps or 10 Gbps
Guest Mode	-
Data masking	Yes. TEMPEST level 27/A.
MD Kiosk Integration	No
MD Vault Integration	Yes
Physical Dimension	19" rack mountable unit. Measures in mm: 482x142x44 (both 1 and 10 Gbps models)
Weight	2.05 Kg (both 1 and 10 Gbps models)
Voltage	110-230V AC, 50-60 Hz (both 1 and 10 Gbps models)
Operating temp	-20C to 60C (both 1 and 10 Gbps models)
Input/output support	Inbound connector: Duplex LC. Outbound connector Simplex LC (both 1 and 10 Gbps models)
Content filtering	OPSWAT
Export restrictions	Wassenaar Arrangement controlled

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Main Markets Served

Global



Product	Hub Vault HSM for miniDiode
Diode Technology	Electrical - unidirectional electrical isolation.
Product Description	Ultra-secure HSM based embeddable data diode. Made for industrial environment with customizable physical interfaces and protocols.
Unique value proposition	Protected within HSM secure enclaves. Identities, Roles and Policies based access control - customizable to control access and data flow; Ultra-low power embeddable to custom form factor. Full secure remote configuration and firmware update. Rechargeable battery enables operation without external power.
SKU	HU20VA0P-DD1
Certifications	-
Transfer Protocols	TCP, UDP, Streaming data
Encryption standards	<ul style="list-style-type: none"> ▪ Hash: SHA-224, SHA-256, SHA-384, SHA-512, SHA3 (Keccak), SHA3-224, SHA3-256, SHA3-384, SHA3-512, BLAKE2b, RIPEMD-160, Poly1305 ▪ Symmetric: AES, DES, 3DES, ChaCha20, Camellia ▪ Asymmetric: RSA, DSS, DH, EDH, ECDH-ECDSA, ECDHE-ECDSA, ECDH-RSA, ECDHE-RSA ▪ Curves: Curve25519, Ed25519, secp256k1, NIST, BRAINPOOL, KOBLITZ ▪ Key Derivation: HMAC, PBKDF2 ▪ Random: Physical QRNG ▪ Supports secure firmware upgrades for any algorithm.
Transfer rate	1Mbit/sec
Guest Mode	Yes
Data masking	Yes. Fully sealed metal enclosure faraday cage
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	7.4" x 4.7" x 2.2"
Weight	0.5 kg
Voltage	4.5-72 VDC / 2W
Operating temp	0-50 C
Input/output support	USB2.0 Host/Device x1, 100Mbps RJ45 x1, IrDA 100kbs x1 - option, GPIOs configurable communication interface via DB connector (UART, SPI, Parallel, ...)
Content filtering	-
Export restrictions	None

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Main Markets Served
Global



Product	Hub Vault HSM for Diode
Diode Technology	Electrical UniDirection
Product Description	Customizable ultra-secure HSM based data diode server. Optional secure side channel for controlled and limited reverse access (as addt'l HW vault in HSM, or standalone pluggable HW module, or separate standalone solution)
Unique value proposition	Protected within HSM secure enclaves; Identities, Roles and Policies based access controlfully - customizable to control access and data flow; Full secure remote configuration and firmware update. Optional ultra secure reverse HW channel
SKU	HU20VA0P-DD2
Certifications	-
Transfer Protocols	TCP, UDP, REST API
Encryption standards	<ul style="list-style-type: none"> Hash: SHA-224, SHA-256, SHA-384, SHA-512, SHA3 (Keccak), SHA3-224, SHA3-256, SHA3-384, SHA3-512, BLAKE2b, RIPEMD-160, Poly1305 Symmetric: AES, DES, 3DES, ChaCha20, Camellia Asymmetric: RSA, DSS, DH, EDH, ECDH-ECDSA, ECDHE-ECDSA, ECDH-RSA, ECDHE-RSA Curves: Curve25519, Ed25519, secp256k1, NIST, BRAINPOOL, KOBLITZ Key Derivation: HMAC, PBKDF2 Random: Physical QRNG Supports secure firmware upgrades for any algorithm.
Transfer rate	50 Mbit/sec
Guest Mode	Yes
Data masking	Yes. Fully sealed metal enclosure faraday cage
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	19" 1U rack appliance. 13.00" L x 16.60" W x 1.75" H
Weight	6 kg
Voltage	90-240 VAC, 50-60Hz / 50W Redundant Power Supply
Operating temp	0-50 C
Input/output support	1GbE RJ45 x2, USB2.0 type A Host x2, Custom interfaces upon Request
Content filtering	Can integrate OPSWAT capabilities.
Export restrictions	None

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Main Markets Served
Global



Product	Hub Vault HSM for FiberDiode [Coming Soon]
Diode Technology	Electrical UniDirection
Product Description	High performance, customizable ultra-secure HSM based data diode server. Optional secure side channel for controlled and limited reverse access (as add'l HW vault in HSM, or standalone pluggable HW module, or separate standalone solution)
Unique value proposition	Protected within HSM secure enclaves. Identities, Roles and Policies based access control - fully customizable to control access and data; Full secure remote configuration and firmware update. Accelerated crypto algorithms performance. Optional ultra secure reverse HW channel
SKU	HU20VAOP-DD3
Certifications	-
Transfer Protocols	TCP, UDP, REST API (additional protocols to be added)
Encryption standards	<ul style="list-style-type: none"> Hash: SHA-224, SHA-256, SHA-384, SHA-512, SHA3 (Keccak), SHA3-224, SHA3-256, SHA3-384, SHA3-512, BLAKE2b, RIPEMD-160, Poly1305 Symmetric: AES, DES, 3DES, ChaCha20, Camellia Asymmetric: RSA, DSS, DH, EDH, ECDH-ECDH, ECDH-ECDH, ECDH-RSA, ECDHE-RSA Curves: Curve25519, Ed25519, secp256k1, NIST, BRAINPOOL, KOBLITZ Key Derivation: HMAC, PBKDF2 Random: Physical QRNG Supports secure firmware upgrades for any algorithm.
Transfer rate	500 Mbit/sec
Guest Mode	Yes
Data masking	Yes. Fully sealed metal enclosure faraday cage
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	19" 1U rack appliance. 13.00" L x 16.60" W x 1.75" H
Weight	6 kg
Voltage	90-240 VAC, 50-60Hz / 100W Redundant Power Supply
Operating temp	0-50 C
Input/output support	10GbE SFP x4, 1GbE RJ45 x2, USB2.0 type A Host x4 Custom interfaces upon Request
Content filtering	Can integrate OPSWAT capabilities.
Export restrictions	None

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Main Markets Served
Global



Product	SDoT Diode [SDD]
Diode Technology	Software on custom security-by-design hardware platform
Product Description	The SDoT SDD is a next generation data diode which ensures logical separation of networks without a return channel due to its unique and evaluated security architecture. Side channel attacks are prevented through the minimized kernel. The SDoT diode allows fast and high-performance unidirectional data transfer via numerous protocols in a compact form factor between two security domains. It also offers additional functions such as HTTP response status codes.
Unique value proposition	Fastest military grade software based data diode in the world with German, EU and NATO SECRET accreditation available in semi-ruggedized 19" 1U or compact housing optimized for use in vehicles / harsh environments.
SKU	1510000
Certifications	German, EU and NATO SECRET Accreditation, NATO NIAPC, EAL4+
Transfer Protocols	TCP, UDP, SMTP/S, HTTP/S
Encryption standards	Any
Transfer rate	9.1 Gbps
Guest Mode	No
Data masking	TEMPEST Zone 1-3 SDIP 27 Level B Zone 2-3 SDIP 27 Level C
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	1U, 19", 438 x 573 x 43.6 mm OR 300x300x10 mm (COMP-LAND)
Weight	approx. 9.5 kg / 20.9 lbs
Voltage	Redundant, 100-240 VAC, 50-60 Hz, 5-3 A
Operating temp	Designed for harsh environments
Input/output support	Ethernet RJ45 or Fiber (Any)
Content filtering	No, this can be done by any firewall
Export restrictions	Export Control outside of EU, US, Japan

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Main Markets Served

Global



Product	SDoT Security Gateway / Express (SGW / SGW X)
Diode Technology	Software on custom security-by-design hardware platform
Product Description	Bi-directional security gateway that supports filtering of structured (XML, binary code, JREAP, Profibus, S7 Protocol, Modbus, etc.) and unstructured data objects (e.g. JPEG, DOCX, XLS) between security domains that guarantees a logical separation at all times. It can also be configured as unidirectional data diode.
Unique value proposition	Highly flexible bi-directional Security Gateway with German, EU and NATO SECRET accreditation and EAL4+ certification. Available in semi-ruggedized 19" 1U or compact housings optimized for use in vehicles / harsh environments.
SKU	1113111
Certifications	German, EU and NATO SECRET Accreditation, NATO NIAPC, CC EAL4+
Transfer Protocols	TCP, UDP, SMTP/S, HTTP/S
Encryption standards	SSLv3; up to TLS 1.3; RSA; crypto agile (ECDSA)
Transfer rate	Up to 6 Gbps
Guest Mode	No
Data masking	TEMPEST Zone 1-3 SDIP 27 Level B Zone 2-3 SDIP 27 Level C
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	1U, 19", 438 x 573 x 43.6 mm OR 300x300x10 mm (COMP-LAND)
Weight	approx. 9.5 kg / 20.9 lbs
Voltage	Redundant, 100-240 VAC, 50-60 Hz, 5-3 A
Operating temp	Designed for harsh environments
Input/output support	Ethernet RJ45 or Fiber (Any)
Content filtering	Yes
Export restrictions	Export Control outside of EU, US, Japan

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Main Markets Served

Global



Product	SDoT Labelling Service (LS)
Diode Technology	Software on custom security-by-design hardware platform
Product Description	As an element of data centric security (DCS) or data centric audit and protection (DCAP) concepts, the SDoT Labelling Service takes over the role of classifying sensitive data and verifying labels. The XML security labels are cryptographically bound to any structured or unstructured data object. Combined with an SDoT Security Gateway it is possible to model complex cross domain solutions with a broad range of data objects and bi-directional exchange of data between systems, departments, organizations or nations. The SDoT Labelling Services allows manual or automatic data classification with XML security labels. The SDoT Labelling Service is available as a virtual machine or hardware appliance. An open API enables any whitelisted user to classify data with tamper proof labels from any application.
Unique value proposition	Application independent data classification with tamper proof, NATO STANAG 4774/8 compliant XML security labels to complement the SDoT Security Gateway for unstructured data filtering between security domains.
SKU	1215100
Certifications	German, EU and NATO SECRET Accreditation, NATO NIAPC, EAL4+
Transfer Protocols	TCP, UDP, SMTP/S, HTTP/S
Encryption standards	Any
Transfer rate	9.1 Gbps
Guest Mode	No
Data masking	TEMPEST Zone 1-3 SDIP 27 Level B Zone 2-3 SDIP 27 Level C
MD Kiosk Integration	N/A
MD Vault Integration	N/A
Physical Dimension	1U, 19", 438 x 573 x 43.6 mm
Weight	Approx. 9.5 kg / 20.9 lbs
Voltage	Redundant, 100-240 VAC, 50-60 Hz, 5-3 A
Operating temp	Designed for harsh environments
Input/output support	Ethernet RJ45 or Fiber (Any)
Content filtering	Yes
Export restrictions	Export Control outside of EU, US, Japan

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Main Markets Served

Global



Product	nNetDiode U-type				
Diode Technology	Physical uni-directional network adaptor with optical port between Rx and Tx system				
Product Description	Provide unhackable / impassable physical barrier through physical one-way data transmission network adaptor installed in H/W-enforced system. Patented technology / algorithm for automatic error detection and data re-transmission solves all problems occurring in normal data diode systems.				
Unique value proposition	<ul style="list-style-type: none">Automatic error detection on transmitted data, network connectivity, RX and its associated system.Automatic data re-transmission through data buffering when errors occur.				
SKU	1				
Certifications	Common Criteria [EAL2], Good Software [Level1], KC, TTA, Government preferential purchase product [Good invention], Domestic/global patent, ISO, Innobiz				
Transfer Protocols	Industrial protocol <ul style="list-style-type: none">OPCControl system (PLC, HMI etc)Control solution (PI, GE, Siemens, Rockwell, Emerson, Honeywell etc)	IT protocol <ul style="list-style-type: none">File TransferRemote accessDatabaseApplicaton	Other protocols <ul style="list-style-type: none">NTP, UDP, TCPMulticast ethernetSNMP etc	Support more than 200 known/ unknown protocols	
Encryption standards	Sha256, AES256, ARIA256				
Transfer rate	~1Gbps				
Guest Mode	No. Available by highest level of administrator.				
Data masking	Saving the administrator indentification code and perform the data encryption for sensitive data protection				
MD Kiosk Integration	N/A				
MD Vault Integration	N/A				
Physical Dimension	438 × 44 × 480 [W×H×D, mm]				
Weight	7 kg				
Voltage	AC 100 - 240, 5A-3A, 50/60Hz				
Operating temp	0°C - 40°C				
Input/output support	Tx Part <ul style="list-style-type: none">4 x 1Gbps Copper (RJ-45)2 x USB 3.01 x Console (RJ-45)		Rx Part <ul style="list-style-type: none">4 x 1Gbps Copper2 x USB 3.01 x Console (RJ-45)		
Content filtering	<ul style="list-style-type: none">Malicious code detection and raw packet filtering for network stream (IP, Port, FTP, SFTP, HTTPS[s], Modbus etc)Malicious code detection in the file.Suspicious code analysis through static analysis				
Export restrictions	N/A				

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Main Markets Served

Global



Product	nNetDiode P-type				
Diode Technology	Physical uni-directional network adaptor with optical port between Rx and Tx system				
Product Description	Provide unhackable / impassable physical barrier through physical one-way data transmission network adaptor installed in H/W-enforced system. Patented technology / algorithm for automatic error detection and data re-transmission solves all problems occurring in normal data diode systems.				
Unique value proposition	<ul style="list-style-type: none">Automatic error detection on transmitted data, network connectivity, RX and its associated system.Automatic data re-transmission through data buffering when errors occur.				
SKU	2				
Certifications	Common Criteria [EAL2], Good Software [Level1], KC, TTA, Government preferential purchase product [Good invention], Domestic/global patent, ISO, Innobiz				
Transfer Protocols	Industrial protocol <ul style="list-style-type: none">OPCControl system (PLC, HMI etc)Control solution (PI, GE, Siemens, Rockwell, Emerson, Honeywell etc)	IT protocol <ul style="list-style-type: none">File TransferRemote accessDatabaseApplicaton	Other protocols <ul style="list-style-type: none">NTP, UDP, TCPMulticast ethernetSNMP etc	Support more than 200 known/ unknown protocols	
Encryption standards	Sha256, AES256, ARIA256				
Transfer rate	~1Gbps				
Guest Mode	No. Available by highest level of administrator.				
Data masking	Saving the administrator indentification code and perform the data encryption for sensitive data protection				
MD Kiosk Integration	N/A				
MD Vault Integration	N/A				
Physical Dimension	Tx system: 438 × 44 × 480 [W×H×D, mm], Rx system: 438 × 44 × 480 [W×H×D, mm]				
Weight	Tx system : 7 kg, Rx system : 7 kg				
Voltage	AC 100 – 240, 5A-3A, 50/60Hz				
Operating temp	0°C – 40°C				
Input/output support	Tx System <ul style="list-style-type: none">2 x 1Gbps Optical (Tx only)4 x 1Gbps Optical8 x 1Gbps Copper(RJ-45)2 x USB 3.01 x Console (RJ-45)1 x HDMI		Rx System <ul style="list-style-type: none">2 x 1Gbps Optical (Rx only)4 x 1Gbps Optical8 x 1Gbps Copper(RJ-45)2 x USB 3.01 x Console (RJ-45)1 x HDMI		
Content filtering	<ul style="list-style-type: none">Malicious code detection and raw packet filtering for network stream (IP, Port, FTP, SFTP, HTTPS[s], Modbus etc)Malicious code dection in the file.Suspicious code analysis through static analysis				
Export restrictions	N/A				

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Main Markets Served

Global



Product	nNetDiode E-type			
Diode Technology	Physical uni-directional network adaptor with optical port between Rx and Tx system			
Product Description	Provide unhackable / impassable physical barrier through physical one-way data transmission network adaptor installed in H/W-enforced system. Patented technology / algorithm for automatic error detection and data re-transmission solves all problems occurring in normal data diode systems.			
Unique value proposition	<ul style="list-style-type: none">Automatic error detection on transmitted data, network connectivity, RX and its associated system.Automatic data re-transmission through data buffering when errors occur.			
SKU	2			
Certifications	Common Criteria [EAL2], Good Software [Level1], KC, TTA, Government preferential purchase product [Good invention], Domestic/global patent, ISO, Innobiz			
Transfer Protocols	Industrial protocol <ul style="list-style-type: none">OPCControl system [PLC, HMI etc]Control solution [PI, GE, Siemens, Rockwell, Emerson, Honeywell etc]	IT protocol <ul style="list-style-type: none">File TransferRemote accessDatabaseApplicaton	Other protocols <ul style="list-style-type: none">NTP, UDP, TCPMulticast ethernetSNMP etc	Support more than 200 known/ unknown protocols
Encryption standards	Sha256, AES256, ARIA256			
Transfer rate	~10Gbps			
Guest Mode	No. Available by highest level of administrator.			
Data masking	Saving the administrator indentification code and perform the data encryption for sensitive data protection			
MD Kiosk Integration	N/A			
MD Vault Integration	N/A			
Physical Dimension	Tx system: 438 × 44 × 450 [W×H×D, mm], Rx system: 438 × 44 × 450 [W×H×D, mm]			
Weight	Tx system : 7 kg, Rx system : 7 kg			
Voltage	AC 100 - 240, 5A-3A, 50/60Hz			
Operating temp	0°C - 40°C			
Input/output support	Tx System <ul style="list-style-type: none">2 x 10Gbps Optical [Tx only]4 x 10Gbps Optical4 x 1Gbps Optical8 x 1Gbps Copper[RJ-45]2 x USB 3.01 x Console [RJ-45]1 x HDMI		Rx System <ul style="list-style-type: none">2 x 10Gbps Optical [Rx only]4 x 10Gbps Optical4 x 1Gbps Optical8 x 1Gbps Copper[RJ-45]2 x USB 3.01 x Console [RJ-45]1 x HDMI	
Content filtering	<ul style="list-style-type: none">Malicious code detection and raw packet filtering for network stream [IP, Port, FTP, SFTP, HTTPS[s], Modbus etc]Malicious code detection in the file.Suspicious code analysis through static analysis			
Export restrictions	N/A			

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Main Markets Served

Global



Product	nNetTrust	
Diode Technology	Physical uni-directional network adaptor with optical port	
Product Description	Deliver collected information (data, file, software update, patch, etc.) from external network into internal security network after executing suspicious code analysis and malicious code inspection at clean system	
Unique value proposition	<ul style="list-style-type: none"> Consists of 3 different proxy servers in one cabinet (Tx, Rx, Clean System). Deliver information safely by an automatic switched turned on by configured schedule. Protect not only the internal security network from external attack but also completely block leakage of internal data due to one-way data transmission function. Key software functions of nNet Diode included such as automatic error detection and smart data re-transmission. 	
SKU	1	
Certifications	Common Criteria (EAL2), Domestic/global patent, ISO, Innobiz	
Transfer Protocols	<ul style="list-style-type: none"> Syslog DB (MSSQL/Sybase) UDP, TCP FTP/SFTP/File/Folder SIEM Packet stream 	
Encryption standards	Sha256, AES256, ARIA256	
Transfer rate	~1Gbps	
Guest Mode	No. Available by highest level of administrator.	
Data masking	Saving the administrator identification code and perform the data encryption for sensitive data protection	
MD Kiosk Integration	N/A	
MD Vault Integration	N/A	
Physical Dimension	438 × 44 × 620 (W×H×D, mm)	
Weight	10 kg	
Voltage	AC 100 - 240, 5A-3A, 50/60Hz	
Operating temp	0°C - 40°C	
Input/output support	Tx System-Collect <ul style="list-style-type: none"> 1 x 1Gbps Copper (RJ-45) 1 x 1Gbps Copper (RJ-45) available for management Clean System <ul style="list-style-type: none"> 1 x 1Gbps Copper (RJ-45) available for management 	Rx System-Delivery <ul style="list-style-type: none"> 1 x 1Gbps Copper (RJ-45) 1 x 1Gbps Copper (RJ-45) available for management
Content filtering	<ul style="list-style-type: none"> Malicious code detection and raw packet filtering for network stream (IP, Port, FTP, SFTP, HTTPS[s], Modbus etc) Malicious code detection in the file. Suspicious code analysis through static analysis 	
Export restrictions	N/A	

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Main Markets Served

Global



Product	DiOTa Optical DualDiode
Diode Technology	Owl DualDiode Communication Card (Digital Isolator)
Product Description	DiOTa is a compact (DIN rail), scalable, single-purpose data diode that provides secure, one-way data transfers of low volumes of data, with an intuitive user interface.
Unique value proposition	<ol style="list-style-type: none"> 1. Single hardware appliance (not multiple, separate components for the complete solution) 2. Compact and scalable 3. Affordable cost
SKU	Single Purpose
Certifications	<ul style="list-style-type: none"> ▪ FCC Class B compliance ▪ CE mark ▪ CB certificate ▪ IEC/EN 62368-1 ▪ CAN/CSA-C22.2 62368-1:2014 ▪ VCCI ▪ TUV ▪ Based on EAL certified technology
Transfer Protocols	One of: TCP, UDP, SNMP Traps, or Syslog
Encryption standards	N/A
Transfer rate	5 Mbps
Guest Mode	No - only one Admin account is available.
Data masking	Owl utilizes a protocol break between the networks and removes identifying IP header information from the payload, maintaining the integrity of the OT network.
MD Kiosk Integration	Yes
MD Vault Integration	Yes
Physical Dimension	1.75"W x 6.75"H x 5.75"D / 4.44 cm x 17.15 cm x 14.48 cm
Weight	1 lb / 0.45 kg
Voltage	<ul style="list-style-type: none"> ▪ Input: 9-25V DC ▪ Estimated normal operating usage: 10W total
Operating temp	<ul style="list-style-type: none"> ▪ 4° F to +113° F / -20° C to +45° C ▪ 5% to 90% humidity non-condensing
Input/output support	Separate ethernet connections for network data and administrative functions <ul style="list-style-type: none"> ▪ Physical connectors: 8P8C (RJ45) ▪ Supports 10BASE-T, 100BASE-TX
Content filtering	N/A
Export restrictions	Must comply with U.S. Export Administration Regulations [EAR], 15 C.F.R. Parts 730-772

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Main Markets Served

Global



Product	OPDS-100D
Diode Technology	Owl DualDiode Communication Card (Digital Isolator)
Product Description	Designed specifically for industrial control deployments in harsh environments, the compact (DIN rail) OPDS-100D provides secure, simultaneous, one-way data transfers of low to medium volumes of data.
Unique value proposition	<ol style="list-style-type: none"> 1. Scalable and compact 2. Designed specifically for harsh industrial environments and supports extreme temperatures and shock vibration
SKU	Multi-Purpose
Certifications	<ul style="list-style-type: none"> ▪ FCC Class A compliance w ▪ CE Mark ▪ CB Certificate: Report 31780392.001 ▪ EN 60950-1:2006 +A11:2009 A1:2009 ▪ A1:2010 + A12:2011 + A2:2013 ▪ UL 60950-1:2007 R10.14 ▪ CAN/CSA-C22.2 NO.60950-1- ▪ 07+A1:2011+A2:2014 ▪ International Common Criteria Certification - EAL Certified ▪ VCCI
Transfer Protocols	UDP, TCP/IP, SNMP, SMTP, NTP, and FTP
Encryption standards	N/A
Transfer rate	104 Mbps
Guest Mode	Yes - with limited access, specified by the admin
Data masking	Owl utilizes a protocol break between the networks and removes identifying IP header information from the payload, maintaining the integrity of the OT network.
MD Kiosk Integration	Yes
MD Vault Integration	Yes
Physical Dimension	1.92" W x 6.132" H x 5.5" D / 4.88 cm x 15.58 cm x 13.97 cm
Weight	2 lbs, 7 oz /1.1 kg
Voltage	<ul style="list-style-type: none"> ▪ Input: 9-36V DC ▪ Estimated Normal Operating Usage: 10-15W per side ▪ Max. 20W Per Side ▪ Optional AC Power Brick (not provided)
Operating temp	<ul style="list-style-type: none"> ▪ -40°F to +140°F / -40°C to +60°C ▪ 5% to 90% humidity non-condensing
Input/output support	Separate ethernet connections for network data and administrative functions <ul style="list-style-type: none"> ▪ Physical connectors: 8P8C (RJ45) ▪ Supports 10BASE-T, 100BASE-TX
Content filtering	N/A
Export restrictions	Must comply with U.S. Export Administration Regulations [EAR], 15 C.F.R. Parts 730-772

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Main Markets Served

Global



Product	OPDS-100
Diode Technology	Owl DualDiode Communication Card (Digital Isolator)
Product Description	The OPDS-100 is a standard, all in one, 1U rack-mountable data diode that provides a deterministic, one-way link with an absolute protocol break, ensuring the highest level of security available to address applications requiring low to moderate data throughput.
Unique value proposition	<ol style="list-style-type: none"> 1. All-in-one, standard, 1U appliance (smaller than most competitors and all components are in a single unit) 2. Supports protocols like MQTT, OPC UA, and other commonly used protocols 3. Flexible bandwidth upgrading if requirements increase and large range of throughput options
SKU	Multi-Purpose
Certifications	<ul style="list-style-type: none"> ▪ FCC Class A compliance ▪ CE Mark CB Certificate: 72161659 ▪ UL 60950-1:2007 R10.14 ▪ CAN/CSA-C22.2 NO.60950-1-07+A1:2011+A2:2014 ▪ International Common Criteria Certification - EAL Certified ▪ VCCI
Transfer Protocols	UDP, TCP/IP, SNMP, SMTP, NTP and FTP
Encryption standards	N/A
Transfer rate	104 Mbps
Guest Mode	Yes - with limited access, specified by the admin
Data masking	Owl utilizes a protocol break between the networks and removes identifying IP header information from the payload, maintaining the integrity of the OT network.
MD Kiosk Integration	Yes
MD Vault Integration	Yes
Physical Dimension	<ul style="list-style-type: none"> ▪ 16.5" W x 1.75" H x 13" D ▪ 41.91 cm x 4.5 cm x 33 cm
Weight	7.92 lbs./3.6 kg
Voltage	Input: 75-230 VAC, <ul style="list-style-type: none"> ▪ Estimated normal operating usage 10-16 W per side ▪ Max. 20W per side
Operating temp	<ul style="list-style-type: none"> ▪ 32°F to +110°F ▪ 0°C to +43.33°C ▪ 5% to 90% humidity non-condensing
Input/output support	Ethernet connection for network traffic <ul style="list-style-type: none"> ▪ Physical connectors: 8P8C (RJ45) ▪ Supports speeds of: 10 Mbps, 26 Mbps, 52 Mbps, & 104 Mbps
Content filtering	N/A
Export restrictions	Must comply with U.S. Export Administration Regulations (EAR), 15 C.F.R. Parts 730-772

Owl Cyber Defense

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Main Markets Served

Global



Product	OPDS-1000
Diode Technology	Owl DualDiode Communication Card [Optical]
Product Description	The OPDS-1000 supports secure, one-way data transfers of multiple data types and formats concurrently. Optimized for more demanding industrial control applications, it supports link rates of 104 Mbps, 155 Mbps, 310 Mbps, 630 Mbps, or 1 Gbps.
Unique value proposition	<ol style="list-style-type: none"> 1. All-in-one, standard, 1U appliance [smaller than most competitors and all components are in a single unit] 2. Supports protocols like MQTT, OPC UA, and other commonly used protocols] 3. Flexible bandwidth upgrading if requirements increase and large range of throughput options
SKU	Multi-Purpose
Certifications	<ul style="list-style-type: none"> ▪ FCC Class A compliance ▪ CE Mark ▪ CB Certificate: 72161659 ▪ UL 60950-1:2007 R10.14 ▪ CAN/CSA-C22.2 NO.60950-1-07+A1:2011+A2:2014 ▪ International Common Criteria ▪ Certification - EAL Certified ▪ VCCI
Transfer Protocols	UDP, TCP/IP, SNMP, SMTP, NTP, SFTP and FTP
Encryption standards	N/A
Transfer rate	1000 Mbps
Guest Mode	Yes - with limited access, specified by the admin
Data masking	Owl utilizes a protocol break between the networks and removes identifying IP header information from the payload, maintaining the integrity of the OT network.
MD Kiosk Integration	Yes
MD Vault Integration	Yes
Physical Dimension	<ul style="list-style-type: none"> ▪ 16.5" W x 1.75" H x 13" D ▪ 41.91 cm x 4.5 cm x 33 cm
Weight	7.92 lbs./3.6 kg
Voltage	Input: 75-230 VAC, <ul style="list-style-type: none"> ▪ Estimated Normal operating Usage 10-16 W/side ▪ Max. 20W per side
Operating temp	<ul style="list-style-type: none"> ▪ 32°F to +110°F ▪ 0°C to +43.33°C ▪ 5% to 90% humidity non-condensing
Input/output support	Separate Ethernet connections for network traffic and remote administration <ul style="list-style-type: none"> ▪ Physical connectors: 8P8C [RJ45] ▪ Supports speeds of: 104 Mbps, 155 Mbps, 310 Mbps, 630 Mbps, & 1 Gbps
Content filtering	N/A
Export restrictions	Must comply with U.S. Export Administration Regulations [EAR], 15 C.F.R. Parts 730-772

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Main Markets Served

Global



Product	EPDS
Diode Technology	Owl DualDiode Communication Card [Optical]
Product Description	Consisting of a pair [2] Dell PowerEdge servers, EPDS maintains process control network isolation, while enabling critical information sharing with networks outside the electronic security perimeter. Supports link speeds of 155 Mbps, 1.25/2.5 Gbps, and 10 Gbps.
Unique value proposition	<ol style="list-style-type: none"> 1. Supports high link speeds 2. Utilizes 2 dell servers and maintains process control network isolation
SKU	Multi-Purpose
Certifications	For V7 Card only <ul style="list-style-type: none"> ▪ International Common Criteria Certification - EAL Certified Enterprise server certification is provided by the server manufacturer
Transfer Protocols	UDP, TCP/IP, SNMP, SMTP, NTP, SFTP and FTP
Encryption standards	N/A
Transfer rate	1000 Mbps
Guest Mode	Yes - with limited access, specified by the admin
Data masking	Owl utilizes a protocol break between the networks and removes identifying IP header information from the payload, maintaining the integrity of the OT network.
MD Kiosk Integration	Yes
MD Vault Integration	Yes
Physical Dimension	Dependent on servers selected
Weight	Dependent on servers selected
Voltage	Dependent on servers selected
Operating temp	Dependent on servers selected
Input/output support	Dependent on servers selected
Content filtering	N/A
Export restrictions	Must comply with U.S. Export Administration Regulations [EAR], 15 C.F.R. Parts 730-772

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Main Markets Served

Global



Product	Kindi DataDiode
Diode Technology	Electrical
Product Description	With the hardware-based Kindi Data Diode, critical networks are isolated and the transmission of cyber threats from open ports is physically prevented.
Unique value proposition	Thanks to its chip-based structure, it is not affected by zero-day threats, can't be re-configured with any SW attack. Bandwidth is 10Gbps and can use %99.8 of it.
SKU	DataDiode10G
Certifications	Common Criteria EAL4 + certification is in the approval process.
Transfer Protocols	UDP, TCP/IP, SNMP, SMTP, NTP, SFTP and FTP
Encryption standards	AES 256bt GCM mode (Line Encryption Support)
Transfer rate	99.8% in 10 Gbps
Guest Mode	-
Data masking	Fiber optic, no shield
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	1U (Rackmount): 482.5x 375 x 44 (±0.5 mm) [WxDxH] Desktop: 230 x 250x 44 (±0.5 mm) [WxDxH]
Weight	1U (Rackmount): 6 kg mechanical weight / 11 kg weight including electronics Desktop: 3 kg mechanical weight / 10 kg weight including electronics
Voltage	12 V
Operating temp	Operating Temperature of 0 ° C to + 50 ° C Storage Temperature -10 ° C to + 80 ° C
Input/output support	Ethernet (RJ45) RS232, SFP
Content filtering	N/A
Export restrictions	-

Rovenma

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Main Markets Served

Global, EMEA, UE, Turkic Council

SIEMENS

Product	CoreShield Data Capture Unit (DCU)
Diode Technology	Electromagnetic induction
Product Description	Worlds first industrial grade data diode with a safety assessment and security level 3 (SL3) certification (IEC 62443). Designed and made by SIEMENS in Germany.
Unique value proposition	Security level 3 (SL3) - IEC 62443 Safety assessment for mission and safety critical applications High reliability Long lifecycle support
SKU	A2V00002748719
Certifications	Security level 3 (SL3) - IEC 62443 Safety assessment CB scheme CE
Transfer Protocols	OPC UA, Modbus, OPC Foundation (DA, A&E), FTP, PCAPng, DNP3, TCP, UDP, SMTP, NTP, Syslog, REST API
Encryption standards	-
Transfer rate	20-200-1000 Mbps
Guest Mode	No
Data masking	Optional
MD Kiosk Integration	Not yet
MD Vault Integration	Not yet
Physical Dimension	60 x 167 x 110 mm or 19" x 1U
Weight	0.8 Kg / 18 lbs or 1.5 Kg / 33 lbs
Voltage	24 - 110 V DC or 100 - 240 V AC
Operating temp	-40° - 70° C
Input/output support	Ethernet RJ45
Content filtering	Not yet
Export restrictions	None

Siemens Mobility GmbH

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Main Markets Served

North America, LATAM, EMEA, APAC



Product	Binary Armor
Diode Technology	Electical / software
Product Description	Binary Armor is an endpoint cybersecurity solution that provides bi-directional security and content filtering across all communications layers.
Unique value proposition	Binary Armor automatically responds to the state of your system, adjusting its deep content inspection and filtering based on changes in operational and risk posture
SKU	7000-SNC-001
Certifications	Comon Criteria, DISA APL, FIPS 140-2, UL 61010 for Ordinary Environment, UL 121201 for Class I and Class II, Division 2 and Class III, Divisions 1 and 2 Hazardous Locations
Transfer Protocols	HTTP, FTP, SMTP, NTP, XML, DNP3, Modbus, EtherNet/IP, R0C Plus, BACnet, IEC-61850, FMV (MISB KLV and MPEG-2, Cursor on Target [CoT]), NMEA 0183, Google Protobuf, Custom Binary, custom ASCII
Encryption standards	TLS 1.2, DTLS 1.1
Transfer rate	Up to 400 Mbps, depending on use case
Guest Mode	Yes
Data masking	Traffic anonymization via extension
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	3.66" x 3.37" x 2.32 "
Weight	1.32 lb
Voltage	12-48 VDC
Operating temp	-40 to +85 C
Input/output support	Ethernet (RJ45) x2, RS-232 (DB9) x1, TTL GPIO x2
Content filtering	Deep content inspection validates every bite of every message, filtering all data in transit
Export restrictions	EAR

Sierra Nevada Corporation

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Main Markets Served

North America, USG, EU



Product	Vsecure
Diode Technology	Proprietary hardware based "diode" like functionality
Product Description	Providing Air-Gap level security for CCTV assets isolating them from any form of Cyber or Networ/Cloud based attacks
Unique value proposition	Air-Gap level of protection while maintaining CCTV end-device functionality by allowing heavily filtered commands to reach the end-device without compromising the Air-Gap isolation.
SKU	Vsecure-20, Vsecure-50
Certifications	-
Transfer Protocols	RTSP/TCP
Encryption standards	None
Transfer rate	1 Gbps
Guest Mode	No
Data masking	None
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	Wx403, Hx44, Dx360 (mm)
Weight	3Kg
Voltage	12VDC
Operating temp	0-70C°
Input/output support	2xRJ-45
Content filtering	None
Export restrictions	None

Terafence

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Main Markets Served
Global, North America, EMEA, APAC,
EU



Product	MBsecure+
Diode Technology	Proprietary hardware based “diode” like functionality
Product Description	Providing Air-Gap level security for ICS/SCADA assets isolating them from any form of Cyber or Network/Cloud based attacks
Unique value proposition	Air-Gap level of protection while maintaining ICS process functionality by allowing heavily filtered commands to reach the end-device without compromising the Air-Gap isolation.
SKU	MBsecure+
Certifications	-
Transfer Protocols	Modbus/RTU, SYSLOG, SMTP, MQTT
Encryption standards	None
Transfer rate	1 Gbps
Guest Mode	No
Data masking	None
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	Wx290 , Hx50 , Dx230 (mm)
Weight	450gr
Voltage	12VDC
Operating temp	0-70C°
Input/output support	2xRJ-45
Content filtering	None
Export restrictions	None

Terafence

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Main Markets Served
Global, North America, EMEA, APAC,
EU



Product	A4Gate
Diode Technology	Proprietary hardware based “diode” like functionality
Product Description	Providing Air-Gap level security for Industry 4.0 assets isolating them from any form of Cyber or Network/Cloud based attacks
Unique value proposition	Cyber Security for Industry 4.0 applications allowing data upload to cloud applications without exposing the network to any form of Cyber or network/Cloud based attacks
SKU	A4Gate
Certifications	CC, CE
Transfer Protocols	HTTP/S, ALL SCADA PROTOCOLS
Encryption standards	None
Transfer rate	1Gbps
Guest Mode	No
Data masking	None
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	Wx250, Hx71, Dx159 [mm]
Weight	2.1Kg
Voltage	12-48VDC
Operating temp	[-40] - 85C°
Input/output support	2xRJ-45
Content filtering	None
Export restrictions	None

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Main Markets Served
Global, North America, EMEA, APAC, EU



Product	VADO Data Diode
Diode Technology	Optic based data diode. TX Hardware unit, TX Hardware unit & software Agents
Product Description	VADO Data Diode hardware is composed of a TX hardware unit and an RX hardware unit. The units are connected to servers on each side via Ethernet cables and connected to each other (TX to RX) via a single fiber optic cable.
Unique value proposition	Patent pending for Full VM support & Webservice transfer one way
SKU	5007422
Certifications	NISA
Transfer Protocols	AES, RSA
Encryption standards	1 Gbps
Transfer rate	Yes
Guest Mode	-
Data masking	No
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	426 X 260 X 44 mm
Weight	1.5 kg
Voltage	100V-240V AC redundant
Operating temp	0° - 40° C
Input/output support	Ethernet RJ45, Single SC MM Connector
Content filtering	File Typ & size filtering, XML filtering, Web service filtering + External CF Integrations
Export restrictions	None

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Main Markets Served

Global



Product	File transfer Agent
Diode Technology	-
Product Description	File transfer Agent allows secure transfer of any type of file or folder one way over the VADO data diode. The files are transferred from external folders located outside of the secured network, to the secure network folders.
Unique value proposition	-
SKU	5008045
Certifications	-
Transfer Protocols	-
Encryption standards	-
Transfer rate	-
Guest Mode	-
Data masking	-
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	-
Weight	-
Voltage	-
Operating temp	-
Input/output support	-
Content filtering	-
Export restrictions	-

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Main Markets Served

Global



Product	SMTP Agent
Diode Technology	-
Product Description	SMTP is transferred from an external unsecured server to an internal secured server. Once SMTP is sent from an external server to the internal one, it is possible to receive the mail in a plain and simple secured way
Unique value proposition	-
SKU	5003820
Certifications	-
Transfer Protocols	-
Encryption standards	-
Transfer rate	-
Guest Mode	-
Data masking	-
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	-
Weight	-
Voltage	-
Operating temp	-
Input/output support	-
Content filtering	-
Export restrictions	-

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Main Markets Served

Global



Product	FTP Agent
Diode Technology	-
Product Description	FTP transfer Agent allows secure transfer of any type of file or folder VIA FTP, one way over the VADO data diode. The files are transferred from external folders located outside of the secured network, to the secure network folders
Unique value proposition	-
SKU	5004077
Certifications	-
Transfer Protocols	-
Encryption standards	-
Transfer rate	-
Guest Mode	-
Data masking	-
MD Kiosk Integration	No
MD Vault Integration	No
Physical Dimension	-
Weight	-
Voltage	-
Operating temp	-
Input/output support	-
Content filtering	-
Export restrictions	-

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Main Markets Served

Global



Trust no file. Trust no device.

About OPSWAT

OPSWAT is a global leader in critical infrastructure cybersecurity that helps protect the world's mission-critical organizations from malware and zero-day attacks. To minimize the risk of compromise, OPSWAT Critical Infrastructure Protection solutions enable both public and private organizations to implement processes that ensure the secure transfer of files and devices to and from critical networks.

More than 1,000 organizations worldwide spanning Financial Services, Defense, Manufacturing, Energy, Aerospace, and Transportation Systems trust OPSWAT to secure their files and devices; ensure compliance with industry and government-driven policies and regulations, and protect their reputation, finances, employees and relationships from cyber-driven disruption.

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