

OPSWAT.

METADEFENDER™

Diode X

Previously Transfer Guard

Uncompromising Secure File Transfer with Comprehensive Threat Prevention

MetaDefender Diode X ensures uncompromising security for file transfers between networks of different security classifications, providing a secure file scanning and transfer solution that delivers unsurpassed performance, reliability, and security. MetaDefender Diode X integrates OPSWAT's award-winning MetaDefender Core file sanitization engine. MetaDefender Core thoroughly scans and sanitizes files before they are securely transferred by MetaDefender Diode X over a one-way optical connection across a network security boundary to the desired destination.

Scan Before You Send

Detect, analyze, and eliminate known and unknown malware and zero-day threats before transferring data and files between networks with configurable modules and packages powered by industry leading MetaDefender technologies.

Key Features



Predictive Alin AI [Zero-Day Threat Detection]

Predicts file-level risk before execution with a 0.1% false positive rate, no detonation required.



Metascan™ Multiscanning

Quickly scan all files with up to 10 antivirus engines to strengthen detection of known malware.



Deep CDR™ Technology

Recursively sanitize 150+ file types with market leading Deep CDR™ technology and remove 100% of potential threats. Enforced schema conformity with XML schema validation.



File Structure Validation

Enforced schema conformity with XML schema validation.



Proactive DLP™

Remove, redact, or watermark sensitive data in files before it enters or leaves your network.



No Return Path

One-way data flows are enforced by a unidirectional optical connection.



Scalable

We offer a 100Mbps base platform that can be field upgraded to 1Gbps. Additionally, we offer an option for 10Gbps delivered on enterprise servers.



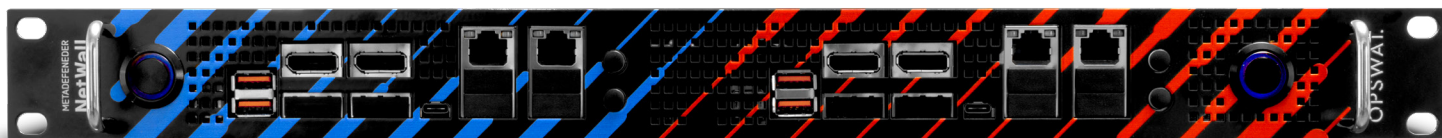
High-Availability

With the purchase of a second MetaDefender Diode X, enable high-availability configurations (active/standby).



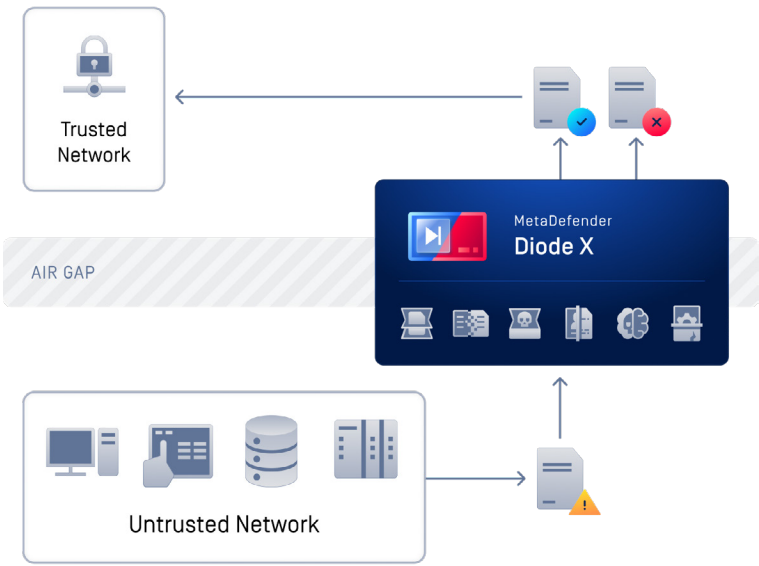
Industrial Cybersecurity Compliance

NERC CIP, NIST ICS/CSF/800-82/800-53, IEC 62443, NRC 5.71, CFATS, ISO 27001/27032/27103, ANSSI, IIC SF, and more. Protects against industrial attack techniques outlined by MITRE ATT&CK.



Benefits

- Secure file transfer between networks of different security classifications
- Secure, hardware enforced unidirectional data paths
- True protocol break, non-routable connection
- Easy deployment and operation
- Isolates OT/ICS assets against cyberattacks
- Prevent malicious C&C communications
- Seamlessly integrates with MetaDefender Kiosk, Core, and Managed File Transfer
- Secures the transfer of software updates and other files to the protected domain



Electrical

Power Supply	300W
Voltage	100–240VAC, auto ranging
Power Consumption	150W typical

Hardware

Dimensions	19 x 1.75 x 14.5" (483 x 44 x 368mm)
Weight	23lb (10.4kg)
Operating Temp.	50 to 95°F (10 to 35°C)
MTBF	>50,000 hours
Mounting	1U rack kit included



Also available in 2X1U form factor

Other Specifications

Connectivity	2x USB for connecting provided crypto keys
Tested Latency*	0.6ms TCP, 0.7ms UDP

Protocol & Certification

File System	FTP, SFTP Folder and file transfer/copy Windows File Share SMB, CIFS Antivirus updates Patch [WSUS] updates
Streaming	HTTPS Syslog TCP UDP NTP Forwarding
Certification	Common Criteria EAL 4+ FCC/CE/UKCA

*Actual latency results may vary according to setup used, traffic characteristics, and network topology.