OPSWAT.

DATASHEET

METADEFENDER

Industrial Firewall™ 8-Port

Industrial Firewall for Critical OT and Cyber-Physical Systems

CIP-aware multi-layered inspection, protecting ICS, OT and SCADA systems from misconfigurations, misuse, zero-days and DoS/DDoS attacks; C1D2-certified and ruggedized.



- Command-aware DPI (Deep Packet Inspection)
- Behavioral monitoring that baselines device behavior
- Adaptive enforcement against deviations from learned behavior
- Routing and transparent deployment modes
- Hardware bypass for minimum downtime

Learning Mode learns network traffic to automate policy generation

Zone-boundary file scanning with multiple anti-malware engines including AI prediction (Predictive ALIN AI)

Centralized monitoring and management via My OPSWAT™

IPsec and OpenVPN support to help secure network traffic

Function code management in the UI

Supported Industrial Protocols

The following are the currently supported protocols. New protocols are regularly added. For the latest list, connect with OPSWAT.

GE Protocols		
CIMPLICITY	GESDI	GEADL
IFIX	GESRTP	BN3500

Industrial Protocols			
MODBUS	VNETIP	PROFINET IO (DCE/RPC)	OPC Classic OPC A&E, OPC DA, and OPC HDA
ETHERNET/IP	BACNET	GOOSE*	MMS
S7COMM	DNP3	SV*	IEC-60870-5-104
SLMP	EGD	EtherCAT Layer2*	DICOM
FINS	PROFINET DCP*	OPC-UA (unencrypted)	MQTT
	PROFINET PTCP*		

* DPI for Transparent Mode Supported

Technical Specifications

Product Description	
Description	Industrial Firewall with DIN Rail Mounting
Port Type and Quantity	6x 2.5 GbE RJ45 ports, 2x SFP
Port Speeds	6x 2.5 GbE RJ45, 2x 1GbE SFP
More Interfaces	2x COM, 2x DIO
USB Interface	1x USB 3.1, 1x USB 2.0 type A
Serial Interface	1x RS-232, DB9 male

Hardware	
CPU	Intel X6425E
Encryption	TPM 2.0
Memory	8GB
Storage	128GB
Dimensions (W x H x D)	87 x 196 x 180 mm
Mounting	DIN Rail
Enclosure	Aluminum with DIN clip
Weight	3.4 kg
Protection Class	IP30

Certifications	
Hazardous Locations	C1D2
Safety of Industrial Control Equipment	IEC 61850-3, IEEE 1613
Basic Standards (EMC)	CE, FCC

Power Requirements	
Operating Voltage	Dual 12 - 48VDC
Power Consumption	24.4W - 31.7W
Power Supply	Phoenix Contact 6-Pin Connector with Lock

Ambient Conditions	
Operating Temperature	-40°C to +70°C
Storage/Transport Temperature	-40°C to +85°C
Relative Humidity (Non-Condensing)	5% to 95%

Reliability	
MTBF	15 Years
Warranty	5 years + option to extend for 3 years

Software	
Software Version	OPSWAT Industrial OS
Security	Firewall Learning Mode, Routing Mode, IPsec and OpenVPN
Management	Local Web UI for Configuration Secure Shell (SSH), Command Line Interface (CLI)
Network Address Translation (NAT)	Masquerading (N-to-1), 1:1, Port Forwarding
Diagnose	LEDs (Power, HDD Status, System Status), Log File, Syslog
Configuration	Web Interface, Command Line Interface (CLI)
Supported Services	HTTPS, NTP (Client), DNS, Syslog
Routing Redundancy	Virtual Router Redundancy Protocol (VRRP)
Routing	Dynamic Routing (OSPFv2, RIPV1/V2)
Switching	• Spanning Tree Protocols (MRP / RSTP) • Port Mirroring (SPAN / RSPAN) • Trunk / Access mode per interface • Port Disabling / Isolation • Jumbo Frames • LLDP • SNMP
File Scanning	Scanning Engines (Avira, Bitdefender, Alin AI) Scan Results (verdicts, engine-level detail, file metadata) Supported Extraction Protocols
DoS/DDoS	TCP Protection: 1. Null scan attack 2. Xmas scan attack 3. SYN/FIN scan attack 4. TCP Offset Attack 5. Min Header Scan Attack 6. Limit TCP Source Session 7. Limit TCP Destination Session UDP Protection: 1. UDP Flood 2. Limit UDP Source Session 3. Limit UDP Dest Session ICMP Protection: 1. ICMP Flood 2. ICMP Sweep 3. ICMP Source Session 4. ICMP Dest Session
Switch Features	VLAN
Network Services	Proxy ARP
IPv4 Firewall Throughput (1518/512/64)	2.31Gbs/1.3Gbs/203Mbs

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Protecting the World's Critical Infrastructure

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