OPSWAT.

DATASHEET

METADEFENDER

Industrial Firewall™

Industrial Firewalls for Critical OT and Cyber-Physical Systems

Reduce the risk of misconfigurations, misuse, zero-days, DoS/DDoS attacks and anomalies reaching ICS, OT and SCADA systems. CIP-aware inspection, in a C1D2-certified, ruggedized firewall.



- ML-based traffic learning for automated policy generation (Firewall Learning Mode)
- Zone-boundary file scanning with multiple anti-malware engines, AI-prediction included
- Protocol-specific DPI to help detect anomalies and attacks
- IPsec and OpenVPN support for secure connectivity
- Function code management in the UI
- Centralized monitoring and management via My OPSWAT™

Supported Industrial Protocols

Our current supported protocols are located below, and new protocols are continually added. Connect with OPSWAT for the latest list.

GE Protocols		
CIMPLICITY	GESDI	GEADL
IFIX	GESRTP	BN3500

Industrial Protocols			
MODBUS	VNETIP	PROFINET IO (DCE/RPC)	MMS
ETHERNET/IP	BACNET	GOOSE	IEC-60870-5-104
S7COMM	DNP3	SV	DICOM
SLMP	EGD	EtherCAT Layer2	
FINS	PROFINET DCP	OPC-UA (unencrypted)	

Technical Specifications

Product Description	
Type	Industrial Firewall for Operations
Description	Industrial Firewall with DIN Rail Mounting
Port Type and Quantity	3x 2.5 GbE RJ45 ports + 1 SFP
Port Speeds	3x 2.5 GbE RJ45, 1x 1GbE SFP

More Interfaces	
USB Interface	2x USB 3.1 Gen 2
Serial Interface	HMI

Hardware	
CPU	Intel X6425E
Encryption	TPM 2.0 via SPI
Memory	8GB
Storage	128GB

Power Requirements	
Operating Voltage	Dual 12 - 36VDC
Power Consumption	19.55W
Power Supply	Phoenix Contact 3-Pin Connector with Lock

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

Mechanical Construction	
Dimensions (W x H x D)	143.94 x 134.9 x 64 mm
Mounting	DIN Rail
Enclosure	Aluminum with DIN clip
Weight	1.05kg
Protection Class	IP50

Approvals	
Basic Standards (EMC)	CE, FCC
Safety of Industrial Control Equipment	UL 62368-1
Hazardous Locations	Class 1 division 2

Reliability	
MTBF	15 Years
Warranty	5 Years + Extended Option 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)
Routing Redundancy	Virtual Router Redundancy Protocol (VRRP)
Routing	Dynamic Routing (OSPF, RIPV1/V2)
DoS/DDoS	TCP Protection: Null scan attack Xmas scan attack SYN/FIN scan attack TCP Offset Attack Min Header Scan Attack Limit TCP Source Session Limit TCP Destination Session UDP Protection: UDP Flood Limit UDP Source Session Limit UDP Dest Session ICMP Protection: ICMP Flood ICMP Sweep ICMP Source Session ICMP Dest Session
Switch Features	VLAN
File Scanning	Scanning Engines (Avira, Bitdefender, Alin AI) Scan Results (verdicts, engine-level detail, file metadata) Supporter Extraction Protocols
Network Services	Proxy ARP

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Protecting the World's Critical Infrastructure

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