OPSWAT. DATASHEET

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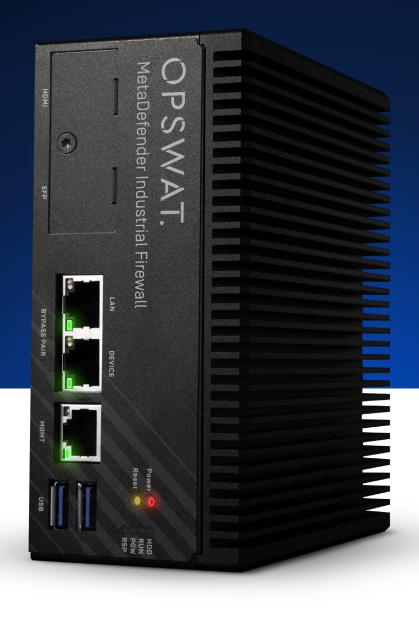
Industrial Firewall[™]

Industrial Firewalls for Critical OT and Cyber-Physical Systems

MetaDefender Industrial Firewall is a C1D2 certified, network security solution designed to protect multi-layered, mission-critical OT & CPS [cyber-physical systems] networks. These firewalls are engineered to protect ICS, OT, and SCADA systems from accidental misconfigurations, malicious misuse, zero-day threats, DoS and DDoS attacks, and potentially harmful anomalies.

Industrial Firewall for Operations

MetaDefender Industrial Firewall for Operations is a high-performance, ruggedized firewall, built to effectively block anomalous network activities, ensuring your network remains secure and compliant against evolving cyberthreats.





Features FLM (Firewall Learning Mode) with machine learning capabilities to monitor and learn network traffic for automated security policy generation.



Supports IPsec and OpenVPN.



Offers function code implementation in the UI for ease of management.



Implements Protocol Specific DPI rule sets to block anomalies and cyberattacks.

Technical Specifications

Product Description		
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	
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More Interfaces		
USB Interface	2x USB 3.1 Gen 2	
Serial Interface	НМІ	
Hardware		
CPU	Intel X6425E	
Encryption	TPM 2.0 via SPI	
Memory	8GB	
Storage	128GB	
Software		
Software version	OPSWAT Industrial OS [3.2.0]	
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)	
Protocols	HTTPS, NTP (Client), DNS, Syslog	
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	ICMP Dest Session VLAN	



Protecting the World's Critical Infrastructure

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Power Requirements		
Operating Voltage	Dual 12 - 36VDC	
Power Consumption	19.55W	
Power Supply	Phoenix Contact 3-Pin Connector with Loc	
Certifications		
Hazardous Locations	Class 1 division 2	
Safety of Industrial Control Equipment	UL 62368-1	
Basic Standards (EMC)	CE, FCC	
Reliability		
MTBF	15 Years	
Warranty	5 Years + Extended Option for 3 years	
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	

Supported Industrial Protocols

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

Industrial Protocols			
MODBUS	BACNET	SV	
ETHERNET/IP	DNP3	EtherCAT Layer2	
S7COMM	EGD	OPC-UA	
SLMP	PROFINET DCP	(unencrypted)	
FINS	PROFINET IO	MMS	
VNETIP	(DCE/RPC)	IEC-60870-5-104	
	GOOSE	DICOM	
GE Protocols			
CIMPLICITY	GESDI	GEADL	
IFIX	GESRTP	BN3500	