

METADEFENDER™

Industrial Firewall 8-Port

Industrial Firewall 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.



MetaDefender Industrial Firewall is a high-performance, ruggedized firewall. It is a purpose-built solution to block anomalous network activity and ensure your network remains secure against evolving cyberthreats.

- DPI (Deep Packet Inspection) commands awareness
- Behavioral Monitoring learns and baselines device behavior
- Policy Auto-Generation
- Adaptive Enforcement blocks deviations from learned behavior
- Flexible Deployment Modes support both routing and transparent modes
- Hardware Bypass Support ensures uninterrupted network availability during maintenance or power loss



Learning Mode to monitor and learn network traffic, and automated security policy generation.



IPsec and OpenVPN protocols support.



Function code implementation in the UI for easier management.



Protocol Specific DPI rule sets to block anomalies and cyberattacks.



Centralized firewall monitoring and management via My OPSWAT™ Central Management portal.

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

* DPI for Transparent Mode Supported

Technical Specifications

Product Description		Reliability	
Description	Industrial Firewall with DIN Rail Mounting	MTBF	15 Years
Port Type and Quantity	6x 2.5 GbE RJ45 ports, 2x SFP	Warranty	5 years + option to extend for 3 years
Port Speeds	6x 2.5 GbE RJ45, 2x 1GbE SFP	Software	
More Interfaces	2x COM, 2x DIO	Software Version	OPSWAT Industrial OS
USB Interface	1x USB 3.1, 1x USB 2.0 type A	Security	Firewall Learning Mode, Routing Mode, IPsec and OpenVPN
Serial Interface	1x RS-232, DB9 male	Management	Local Web UI for Configuration Secure Shell (SSH), Command Line Interface (CLI)
Hardware		Network Address Translation (NAT)	Masquerading (N-to-1), 1:1, Port Forwarding
CPU	Intel X6425E	Diagnose	LEDs (Power, HDD Status, System Status), Log File, Syslog
Encryption	TPM 2.0	Configuration	Web Interface, Command Line Interface (CLI)
Memory	8GB	Supported Services	HTTPS, NTP (Client), DNS, Syslog
Storage	128GB	Routing Redundancy	Virtual Router Redundancy Protocol (VRRP)
Dimensions (W x H x D)	87 x 196 x 180 mm	Routing	Dynamic Routing (OSPFv2, RIPV1/V2)
Mounting	DIN Rail	Switching	- Spanning Tree Protocols (MRP / RSTP) - Port Mirroring (SPAN / RSPAN) - Trunk / Access mode per interface - Port Disabling / Isolation - Jumbo Frames - LLDP - SNMP
Enclosure	Aluminum with DIN clip		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
Weight	3.4 kg	DoS/DDoS	UDP Protection: - UDP Flood - Limit UDP Source Session - Limit UDP Dest Session
Protection Class	IP30		ICMP Protection: - ICMP Flood - ICMP Sweep - ICMP Source Session - ICMP Dest Session
Certifications		Switch Features	VLAN
Hazardous Locations	Class 1 division 2	Network Services	Proxy ARP
Safety of Industrial Control Equipment	IEC 61850-3, IEEE 1613	IPv4 Firewall Throughput (1518/512/64)	2.31Gbs/1.3Gbs/203Mbs
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%		

OPSWAT.

Protecting the World's Critical Infrastructure

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