

METADEFENDER

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
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
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	VLAN
Network Services	Proxy ARP

Power Requirements	
Operating Voltage	Dual 12 - 36VDC
Power Consumption	19.55W
Power Supply	Phoenix Contact 3-Pin Connector with Lock
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 (unencrypted)
SLMP	PROFINET DCP	MMS
FINS	PROFINET IO [DCE/RPC]	IEC-60870-5-104
VNETIP	GOOSE	DICOM
GE Protocols		
CIMPLICITY	GESDI	GEADL
IFIX	GESRTP	BN3500



Protecting the World's Critical Infrastructure

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