

# IFW320

Robust Industrial Firewall Appliance



▲ Front view

## Introduction

Industrial automation industries adopt TCP/IP protocol to simplify development and maintenance. However, this exposes equipment to cyber attacks, spam, and malware. The IFW320 coming with Firewall and VPN features is an ideal industrial firewall appliance. It is suitable for Ethernet security application in sensitive remote control or monitoring networks, such as in oil, gas, water & wastewater, power or factory automation system.

Equipped with Firewall features such as stateful packet inspection, Denial of Service (DoS), and Intrusion Detection & Prevention (IDP), the Firewall appliance could be used to protect machine and equipment connecting to un-trusted internet.

Built in with IPsec VPN that provides site to site secure tunnel, PPTP VPN that offers point to point connection for employee at home, and SSL VPN that offers you an easy VPN access to your headquarters simply through a web browser, the Firewall router device provide system integrator and machine maker a secure way to configure and maintain their device.

The Firewall appliance also have Industrial Protocol management including EtherCAT, Ethernet/IP, Lonworks, Profinet, Modbus, ICE, DNP that pave a way to secure fieldbus network. Additionally, we offer wide temperature models for use in hazardous, -40~75°C environments, economic-friendly model 0~60 °C for non-temperature-sensitive use.

## Specifications

Interface	LAN: 1 RJ-45 port, WAN: 1 RJ-45 port
Network features	Quality of Service QoS Support IPv4/IPv6
Routing	Static routing, RIP v1/v2
Firewall features	Stateful inspection Filter: MAC, IP, port, protocol Bridge mode firewall Denial of Service DoS protection: TCP(SYN), ICMP(ping), ARP(Bridge mode), Port scan NAT: 1-1 NAT, Port forwarding Application software management: VoIP, P2P, SMS, Web, Web Mail, and Entertainment software. Industrial Protocol management: EtherCAT, Ethernet/IP, Lonworks, Profinet, Modbus, ICE, DNP URL white list Virtual proxy server System status: system performance, connecting status, data flow analysis Whitelist: user group, existing IP white list Router/Firewall Redundancy

## Features

- Firewall/NAT/Router all-in-one
- Security protection: Firewall, IDP, Botnet
- Secure connection: VPN, SSL VPN, WAN connection checking
- IPv4/IPv6 dual mode
- Easy network setup with Network Address Translation (NAT)
- Quick installation, USB restore
- Centralized management
- Wide temperature operation -40°C ~ 75°C (IFW320-T)



▲ Rear view

Intrusion Detection and Prevention	IDP (Intrusion Detection and Prevention) BotNet prevention Abnormal IP analysis Switch management
VPN features	Protocol: IPsec, PPTP, SSL VPN Encryption: DES, 3DES, AES Authentication: Pre-Shared Key(PSK), SHA, MD5 IPSec Dead Peer Detection Show remote Network Neighborhood SSL VPN: server setting, certificate setting SSL concurrent VPN channels: Max. 50 SSL VPN user number: Max. 300 VPN channel number: IPsec channels: Max. 100 PPTP client: Max. 50 PPTP server: Max. 50 VPN control Stateful packet inspection NAT Traversal
Data throughput	500 Mbps
VPN throughput	3Des: 50 Mbps Des: 78 Mbps Aes: 85 Mbps
Load Balance	WAN connecting test (ICMP, DNS)
Management	Support Network Time Protocol NTP Web management: HTTP, HTTPs System file backup and upgrade Interface(WAN/LAN) flow statistics System configuration: system configuration default restoration, message notification, export/import, Network Service: Routing table, 802.1Q, DDNS, DNS server, SNMP, DHCP client/server Centralized Management System CMS client/server Networking test: Ping, Traceroute, DNS Query, Server Link IP route, Interface Information, Wake Up, IPv6

## Hardware

Standard Color	Sliver-Black
Construction	Extruded aluminum and heavy-duty steel, IP40
CPU	Intel® Atom™ processor E3815 (1.4 GHz)
System I/O Outlet	- VGA : 1 x DB15 connector - USB : 1 x USB 2.0 - LAN : 2 x 10/100/1000 Ethernet Magnetic isolation protection 1.5KV -Power Input : 1 x DC power input with terminal block
Memory/Storage	2 GB DRAM, 2 GB CompactFlash™
System Indicator	System : Power, Ready/Active
Power Supply	Wide range 12Vdc-24Vdc power input with terminal block.DC Version: OVP, UVP, Reverse protection
Operating Temperature	0°C ~ +60°C (+32°F ~ +140°F) (IFW320), -40°C ~ +75°C (-40°F ~ +167°F) (IFW320-T)
Storage Temperature	-40°C ~ +85°C (-40°F ~ +185°F)

Humidity	5% ~ 95%
Vibration Endurance	2G@5~500Hz, amplitude 0.35mm (operation/storage/transport)
Weight (net/gross)	1.0 kg (2.20 lb)/1.2 kg (2.64 lb)
Certificate	Heavy Industrial CE FCC Part 18 UL60950-1 (compliance) UL508 (compliance)
Dimensions	46 mm (1.81") (W) x 110 mm (4.33") (D) x 155 mm (6.10") (H) 46 x 110 x 155 mm (1.81" x 4.33" x 6.10")

## Ordering Information

Standard	
IFW320	Robust Din-rail Industrial Firewall Appliance Operation Temperature 0°C ~ +60°C (+32°F ~ +140°F)
IFW320-T	Robust Din-rail Industrial Firewall Appliance Operation Temperature -40°C ~ +75°C (-40°F ~ +167°F)

## Dimensions

