HIRSCHMANN
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Product: IAF-240 - Essential



Belden IAF-240 Industrial Firewall with Essential Edition Subscription (3-year)

Product Description

The Belden IAF-240 Industrial Firewall is designed for critical infrastructure and Industry 4.0 applications with four (4) Gigabit Ethernet ports (all RJ45), extended operating temperature range, hazardous location approvals, a quad-core ARM64 CPU, 4 GB LPDDR4 RAM, and 64 GB eMMC storage. This includes a 3-year Essential Edition subscription with advanced firewall, VPN, and edge computing capabilities.

Technical Specifications

Product description

Type:	IAF-240 - ESSENTIAL
Name:	IAF-240 - ESSENTIAL
Part Number:	942355001
Port Type and Quantity:	4 x GbE RJ45 ports
Port Speed:	10/100/1000 Mbit/s RJ45

More Interfaces

Power supply/signaling contact:	1 x plug-in terminal block, 10-pin
USB interface:	1 x USB 2.0 port
Serial Interface:	1 x RJ45 port (RS-232, RS-422, RS-485)
Power Supply:	1 x plug-in terminal block, 10-pin

Hardware

CPU:	NXP i.MX 8M Mini ARMv8 64-bit Cortex-A53 @ 1.6GHz (quad core)
Encryption:	TPM 2.0 (Trusted Platform Module)
Memory:	LPDDR4 4 GB
Storage:	64 GB eMMC storage

Power requirements

Operating Voltage:	Dual 12- 24 V DC
Power Consumption:	Minimum – 2.5W, Maximum – 12W

Security features

Multipoint VPN:	IPsec (IKE v2), OpenVPN, WireGuard, WebVPN

Service

Protocols:	IPv4, IPv6, NTP, VRRP, SNMPv3, PPPoE, DHCP, DNS, DynDNS, SSH, SSL

Software

Management:	Web-based admin dashboard expandable with widgets, Cloud-based Firewall Management Software, High Availability (Configuration Synchronisation, Status Synchronisation, VRRP Virtual IPs), VLAN, Bash, Python Script Support, Quality of Service (QoS), SNMPv3, CRON Jobs, UPnP & NAT-PMP, Setup Wizard
Security:	Stateful Packet Inspection Firewall (Packet Filtering, Port Filtering), Firewall Learning Mode, Access Control Lists, Certification Management, Let´s Encrypt Support, Network Objects, Application Control, XDP hidden in 240/241 - not supported in hardware
Routing:	Layer 3, Layer 2 Bridging, Network Address Translation (NAT), SNAT, DNAT, BiNAT
Application Support and Management:	Docker Container

Ambient conditions

MTBF (Telcordia SR-332 Issue 4) @ 25°C:	309,149 hours
Operating temperature:	-40-+70
Minimum Storage Temperature:	-40-+85 °C
Relative humidity (non-condensing):	5-95 %

Mechanical construction

Dimensions (WxHxD):	48 x 137 x 105 mm
Weight:	613
Housing Material:	Aluminum with DIN clip
Mount Type:	DIN Rail 35 mm
IP Protection Rating:	IP30
Protection Degree / IP Rating**:	IP30

Approvals

Basis Standard:	CE, FCC
Safety of industrial control equipment:	UL 61010
Hazardous locations:	ANSI/UL 121201 Class 1 Div. 2 – Haz. Loc, ATEX-114 Category 3G (Zone 2)

Reliability

Guarantee:	60 months (please refer to the "terms of guarantee or detailed information)
Warranty:	5 Years

Further Instructions

Product Documentation:	https://www.doc.hirschmann.com/index.html
Certificates:	https://www.doc.hirschmann.com/certificates.html
Software Download:	https://my.belden.com/s/downloads

History

Update and Revision:	Revision Number: 0.30 Revision Date: 10-08-2026

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