

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

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|---------------------------------|--|
| 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

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|-------------|---|
| 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

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

Security features

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

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

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| 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, eXpress Data Path |
| Routing: | Layer 3, Layer 2 Bridging, Network Address Translation (NAT), SNAT, DNAT, BINAT |
| Application Support and Management: | Docker Container |

Ambient conditions

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| 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

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|----------------------------------|------------------------|
| 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

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|---|---|
| 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

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

Further Instructions

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|------------------------|---|
| 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

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|----------------------|---|
| Update and Revision: | Revision Number: 0.24 Revision Date: 03-03-2026 |
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