Datasheet

WAN-LAN VPN-Firewallrouter

The **WAN-LAN VPN Firewall Router** (Item No. A-FW50) is a high-performance router designed for industrial Ethernet networks, enabling the secure transmission of sensitive data across communication networks. The integrated firewall and VPN support protect your application from unauthorized access. Remote locations can be easily, securely, and reliably integrated into a VPN network via internet connection. This is made possible by the **ISONA Secure Automation Gateway (SAG)**, which functions as a central VPN gateway, authentication server, and management system. No matter where your system or controller is located, process data and system visualizations are accessible from anywhere via a secure VPN connection. Four configurable digital inputs enable the sending of alarm emails, including to multiple recipients.
Via the **ISONA Automation WebCenter** (web portal), the four integrated digital outputs can be controlled remotely.

With the **WAN-LAN VPN Firewall Router**, system conditions can be monitored and functions controlled remotely. In combination with the **ISONA Automation WebCenter**, the full range of the VPN router's features can be utilized. For example, fault messages triggered by digital inputs can be sent directly to the **ISONA Automation WebCenter**. From there, alerts can be forwarded via SMS, fax, or email to any recipient, and logged in a fault journal. Additionally, data such as metering values can be transmitted from controllers behind the VPN router to the central database of the **ISONA Automation WebCenter**.

Features

- OpenVPN client
- Integrated firewall
- Persistent outgoing VPN tunnel or temporary VPN tunnel controllable via key switch
- 5 LAN ports (1 WAN + 4-port LAN switch)
- PPPoE support on WAN port for ADSL internet connectivity via external DSL modem
- Four configurable digital inputs and four digital outputs; email alerts in case of fault signals on digital inputs
- Wide input voltage range: 10 V/DC to 60 V/DC
- Extended temperature range; integrated surge protection
- Offline configuration via USB stick in combination with an ISONA Automation WebCenter
- Fully compatible with the ISONA Secure Automation Gateway (SAG) and the ISONA Automation WebCenter (web portal); enables automated firmware updates and configuration changes initiated from the WebCenter
- Innovative: Web-based frontends of controllers or similar devices connected to the router's LAN port can also be accessed via HTTPS – ideal for locations where VPN tunnels are not permitted

Technical Data

Power supply

- **Supply voltage:** 10- 60 V DC (via pluggable screw terminals)
- **Rated current consumption:** < 90 mA bei 24 V
- **LED-Displays:** Power, VPN (VPN Tunnel active), P-DATA (Packet-Data active)

Interfaces

- **Router**
  - **Services:** DHCP-Server, HTTP-Server, FTP, NAT, Firewall, SMS, OpenVPN, DynDNS, NTP
  - **Supported protocols:** TCP/IP, UDP/IP, FTP, HTTP, HTTPS
  - **Auxiliary protocols:** ARP, DHCP, PING (ICMP), SNMP V1, V2, V3, SMTP
  - **VPN:** Secure data encryption via OpenVPN to the ISONA Secure Automation Gateway (SAG); outgoing VPN connection – no external IP address required

- **Switch**
  - **LAN-Ports:** 5 Ports (1 WAN + 4-Port LAN-Switch)
  - **Operating mode:** 10/100 MBit/s for full- and half-duplex operation, Ethernet IEEE802
  - **Functions:** Automatic detection of patch/crossover cables, auto speed negotiation, MDI/MDI-X, port mirroring
  - **LED indicators:** ACT (yellow LED): Ethernet data transmission; ACT (green LED): Ethernet link established

- **Serial Interfaces, I/Os**
  - **Serial Interfaces:** optional
  - **Digital I/Os:**
    - 4 digital inputs (10–30 V DC, common ground)
    - 4 digital outputs (24 V DC, short-circuit proof, max. 150 mA)
    - Connection via pluggable screw terminals

Physical characteristics

- **Dimensions:** 101x116x22,5 mm
- **Ambient temperature range:** Operation -25 to +75°C, Storage -40 to +85°C
- **Relative humidity:** 0 - 95% (not condensed)
- **Protection rating:** IP30

CE compliance according to R&TTE Directive 1999/5/EC

- **EMV:** EN 61000-6-2. EN55022 Class B
- **Safety:** EN60950
- **Radio:** EN 301511

Certifications

- **cUL, USA / Kanada:** in progress