SecurIT™ Industrial Firewall

SecurIT INDUSTRIAL FIREWALL was designed from the ground up for industrial control networks (ICN). There are thousands of firewalls available on the market, but few are designed for the unique needs of ICN's. The SECURIT firewall understands industrial protocols, operates in extreme environments and provides the necessary tools to secure your industrial network without relying on IT. Let your SCADA system warn you when there are possible security breaches not the IT department. Let your SCADA or PLC system do something about it!

MODBUS slave. Firewall appliance can be monitored by Modbus register reads. This includes firewall temperature monitoring, CPU loads, data throughput and others. Other devices can now monitor and control the firewall including PLC and SCADA.

STATEFUL AND DEEP PACKET INSPECTION
Modbus and CIP protocol specific packet inspection. Enforce reads, writes and specific register actions.

ISOLATE MODE when either the SCADA system or protected PLC notices a spike or change in activity they can shut the outside firewall port down for a timed interval or indefinitely by simply writing a Modbus register.

SCRIPTING supported by writes to a Modbus register. Up to 65,535 unique scripts can be written and activated. Possibilities can include shutting down the firewall, ports, setting alarms the possibilities are endless.

LEGACY DEVICES are supported through 4 onboard USB ports. Using an RS-232 or RS-485 to USB cable legacy devices can be given an IP address and protected through the firewall. An additional 4 USB ports can be added depending on final firewall port configuration needs.

WARRANTY DEVICE enforce strict read-only Modbus register reads. Protects from accidental or malicious changes.

Design Features

- One Gigabit POE Port - Inside (Green) Interface
- Two Gigabit Port - Inside or Outside Interface
- Extended Operating Temperature Ranges of -20°C to 70°C
- Power 9V-36V
- Passive Cooling, no moving parts
- 4 USB Ports, 4 Additional Ports Optional
- Battery Backed Real-Time Clock

- Industrial Protocol Aware
- Stateful Packet Inspection
- Deep Packet Inspection

- Windows File Share
- Secure Shell (SSH)
- FTP and SFTP
- Network Time Protocol Server (NTP)
- Optional GPS Time Reference

- Network Traffic Protocol Analyzer Logging
- Network Bandwith Monitoring and Logging

Cybersecurity Regulations

NERC CIP
NIST CSF
ISA/IEC 62443

Watch and control a fully operational DEMO on our website at:

www.ieilabs.com

Navigate to the products page.

USES

Utilities (Electric, Water, Wastewater, Gas)
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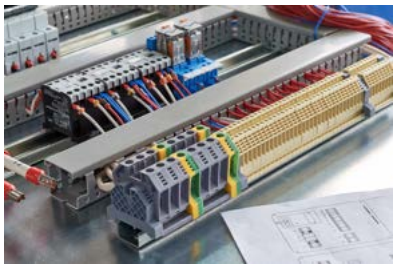
APPLICATIONS

All networks in operation today require a firewall. Most networks are a series of security zones that are separated by use and need. Many of these networks rely on the perimeter zone as the main source of security. This is really not a good practice and especially when it comes to industrial control networks. These are the systems that provide for the critical services that run our modern society. Most of the systems are interconnected with corporate IT networks for simplicity and economy of scale. The problem is the IT systems have different needs and the staff may not be as concerned with the industrial networks. The SecurIT firewall provides a means for you to secure your assets and maintain and monitor the status of the firewall. You don't need to rely on the IT systems to monitor and notify if there is a potential problem. Let your SCADA system notify of these issues.

BENEFITS

While IT network security is a mature industry, there are few firewall appliances that are designed specifically to support industrial control network needs. The SecurIT firewall is designed from the ground up to support these needs. The ability to monitor the firewall through Modbus addressing allows a SCADA system to read these values and display or alarm. What is truly unique is the ability to control the firewall through these same Modbus addresses. With the ability to write up to 65,535 scripts and activate these scripts through writing to a Modbus register the ability for an operator to protect there asset is nearly endless. The SCADA system can perform a shutdown of the outside port if the throughput suddenly changes and set an alarm to alert the operator. The SCADA system can re-enable the port after a pre-set or even escalating interval (see the live DEMO on our website). If an intruder was trying to gain access into the ICN shutting the port down would require them to start all over. You could even shut the firewall down which would great an "air gap" between the ICN and the corporate network.
The firewall is very valuable in single PLC applications such as a remote station read through a radio or cellular network. In this case the PLC can monitor the state of the firewall and perform the same action to temporarily shutdown the port.



MARKETS

Any industrial control network operator would immediately benefit from the SecurIT firewall. From electric utilities to water and wastewater giving operators the ability to monitor their own assets without relying on another group or department. With the SecurIT firewall you can control what other departments can do with the information gained from your network.

The SecurIT firewall is also a valuable tool as a "warranty" device. As a panel builder or system designer you may want to give access to your product but want to strictly enforce no write operations. With the deep packet inspection the firewall will block any writes. Once the warranty period is over the firewall can be removed, or can be left as an additional safety device that the customer always appreciates.

Electrical Specifications

Input Power	9V - 36V DC Power Over Ethernet (Green Port) Low Power Class III Device EN/EC62368-1

Environmental Specifications

Operating Temp	-20° C - 70° C
Shock and Vibration	MIL STD 810G Compliant
Cooling	Passive (fanless)

Standards

Safety	Listed US and Canada E510538

Hardware Specifications

Ethernet Port	1 x 10/100/1000Mbps POE 2 x 10/100/1000Mbps
Serial Port	1 x RS232 (mini serial) Using adapter can utilize all USB ports for RS232/RS422/RS485
USB Port	4 Standard, Additional 4 as an option 2 x USB3.0 Up to 6 x USB2.0
Storage	M.2 SSD
SD Card Slot	1 MicroSD
Clock	Battery backed Real-Time
Graphics	Runs Headless Display not Required Configuration has: HDMI 1.4b and DisplayPort 1.2

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