Firewalls and Routers
IRF1000 series
Maximum security for industrial networks

NEW

Industrial Firewalls and Routers **The security solution for plant and machinery**

Simple and intuitive to use, the firewall carries out demanding security tasks and is ideal for remote maintenance centres or as a router in a control cabinet.

HIGHLIGHTS

→ **Entry-level solution for the world of Remote Service and Industry 4.0**
→ **Smartcard-based security concept**
→ **Four 100 Mbit/s Ethernet ports**
→ **Configuration wizard for easy installation**
→ **Optional 4G/LTE mobile support for wireless Internet access**

Industrial Firewalls and Routers **IRF1000 series**
• The operator can easily initiate remote maintenance using a key switch
• The entire firewall configuration can be stored on a memory card
• Slim housing – takes minimal space on the control cabinet DIN rail

The Industrial Internet of Things – Industry 4.0 **Collect and send data**
• Integration of common IoT protocols (OPC UA, ModbusRTU and ModbusTCP)
• Push data for predictive maintenance, machine learning and other big data applications
• Connection to any third party cloud via MQTT
• Built-in Docker technology provides class-leading flexibility

Big-LinX® **IIoT Service Platform**
• Worldwide access to machinery and plant via smartcard-secured VPN
• Administration and management of all installed systems
• Simple data push with Big-LinX

Industrial Firewalls and Routers
IRF1000 series

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IRF1401 / IRF1421

Technical data

	IRF1401	IRF1421
Ethernet	4 x RJ45 100 Mbit/s	4 x RJ45 100 Mbit/s
Mobile Connectivity	-	2G, 3G, 4G/LTE

Capability Characteristics

WAN	1 x 100 Mbit/s Ethernet interface
LAN	3 x 100 Mbit/s Ethernet interface running as switch
Digital IN	Control multiple options with the Digial IN • Enable/disable (W)WAN • Activate/deactivate VPN • Packet filter rules can be triggered by Digital IN
Firewall Operating Modes	Routing mode with statefull filtering of IPv4 traffic
Packet Filter	Enables the use of pre-defined rule sets for standard communication requirements and an easy to use wizard for new filter sets
Configuration	Configuration via web interface (HTTP, HTTPS and API), initial setup with easy-to-use configuration wizard
VPN	OpenVPN: Layer2 (Ethernet) and Layer3 (IP) transport with SSL-based encryption (support for tunneling via HTTP proxy and packet filtering), Big-LinX: ADS-TEC smartcard-based OpenVPN with cloud services (support for tunneling via HTTP proxy and packet filtering)
Industrial Internet of Things (IIoT)	Easy setup for datasets with support of multiple sources and targets
ModbusTCP Interface	Enables the status request and control of VPN channel, enables ModbusTCP for data collection
ModbusRTU Interface	Enables ModbusRTU interface for data collection
OPC UA	Enables OPC UA for data collection
MQTT	Enables MQTT to send data to defined target
WWAN	Optional integrated LTE multi-band wireless module (2G, 3G, 4G/LTE) for high speed wireless internet access
SNMP	SNMP basic support enables the integration in existing network monitoring tools
Memory Card	Saves the complete configuration und enables easy replacement of the unit
Big-LinX	ADS-TEC Big-LinX smartcard-based VPN System
API	Rich set of software APIs from JSON RPC 2.0 to low level "adsdp" suitable even for microcontrollers

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