Machine Integration into Production Networks Secure Router Technology



Electronics





Connection of communications networks

Maximum security with the Industrial Ethernet Router

Production network

Communication networks used for office applications and for automation are converging. The advantages that result from this process are put into practice more and more frequently because they make procedures more transparent and facilitate data exchange substantially.

Safe integration of machines into a production network with Gigabit-Ethernet

The router can translate the addresses between different networks using protocols such as port forwarding, 1:1 NAT or masquerading. These functions hide all the Ethernet devices of a machine, such as control systems or remote IOs behind the router, so that they are protected. Thereby the router communicates across Gigabit-Ethernet LAN/WAN interfaces. Weidmüller's Industrial Ethernet Router ensures that different networks interoperate in unison and with top-level security.

Intelligent firewall: Stateful packet inspection

Our routers ship with a firewall with configurable filter functions that adapt automatically to the network traffic they see (stateful package inspection). This firewall recognizes the messages that are stateful, i.e. legitimized, and let them pass. Unidentified packets are kept out of your industrial networks.

Machine network 1

Machine network 2

Encrypted transmission of your data via VPN to protect against eavesdroppers

Weidmüller's Industrial Ethernet Router enables access to components from around the world through encrypted VPNs using OpenVPN as well as IPSec technologys, thus ensuring top-level security with minimum effort.



Machine network

Technical Data

Modes			
IP-Router	Static or dynamic routing, supporting RIPv2 / OSPF		
Transparent Bridge	2-port switch with additional layer-2 filter		
N / 10 1			
Network Services			
	 DHCP server / DHCP relay DNS relay 		
	NTP client		
	• DynDNS (DHCP client by RFC 2136)		
Firewall			
Firewali	IPv4 Stateful inspection Firewall (incoming/outgoing)		
	 NAT-Masquerading, 1:1 NAT, Portforwarding 		
	 Layer-2/3-Filter (VLAN ID, VLAN, QoS day, MAC address, Ethertype frame 		
	"Auto learning" feature to create packet filter rules		
	(analysis of network traffic)		
	Layer 2/3-based packet prioritization (Ethernet frame, IP header, VLAN tag		
VPN			
OpenVPN	 Configurable as OpenVPN server or client (Layer 2 and Layer 3) 		
	Authentication with X.509 Certificates		
	 Tunnel support via HTTP proxy 		
	 Maximum of 10 different client or server configurations 		
	 Unlimited number of client connections in server mode 		
IPsec	 Can be configured as an IPsec server or client 		
	 PSK authentication (user ID, password) or X.509 certificates 		
	Hardware-based encryption for faster data throughput		
	 A maximum of 64 simultaneous connections (subnet to subnet or as an IPsec server) 		
	Encryption algorithms DES-56, 3DES-168, AES 128, AES 192, AES-256		
Management			
	Configuration via WEB interface (HHTP / HTTPS)		
	Voice interface in German or English Sectionarity of the section of the		
	 Configuration support through detailed help information (tooltip) Configurable multi-user access with definable rights mask 		
	 Support of SNMP v1/v2/v3, event log / syslog 		
0.1			
Other Modbus/TCP	Integrated Medbus TCD Server for status surgice, and software based		
WIOODUS/ I CP	Integrated Modbus TCP Server for status queries, and software-based activation / de-activation of VPN connections		
Diagnosis	"Remote Capture" feature for network diagnostics via a connected PC (Wireshark)		
Monitoring	Client Monitoring (via ICMP) with alarm function in case of error		
Interfaces			
RJ45 ports	2 x 10/100/1000BaseT(X)		
USB port	Option for future expansion Source and restore of the configuration using a smort cord (moment whin)		
SCM card reader	Save and restore of the configuration using a smart card (memory chip)		
LED indicators	Signaling states for power, status, cut, alert, active VPN connection and an active		

LAN/WAN router with integrated modern UMTS/3G	IE-SR-2GT-UMTS/3G	1345250000	
LAN/WAN router	IE-SR-2GT-LAN	1345270000	
Models	Туре	Order Code	
Ordering Information			
	,		
Period of time	3 years		
Warranty			
Vibration	DIN EN 60068-2-6		
Shock	DIN EN 60068-2-27		
	EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS)		
EMV	FCC Part 15 Class A, EN 55022 Class A, EN61000-4-2 (ESD), EN61000-4-3		
Security	UL508		
Approvals			
	• WCDMA 850/1900/2100 M 850/900/1800/1900 MHz	MHz GSM/GPRS/EDGE	
	(only variant IE-SR-2GT-UMTS/3G) • 7.2 Mbps peak downlink, uplink 8.5 Mbps peak		
UMTS/3G	Built-in quad-band UMTS / HSPA modem		
DynDNS	Support automatic registration		
DSL	Connection to the DSL modem via LAN or WAN port Free configuration of the PPPoE login		
DSL and UMTS/HSPA			
Ambient humidity	6 to 90 % not condensing		
Storage temperature	-20 °C to +85 °C		
Operating temperature	-20 °C to +70 °C		
Environmental conditions			
Assembly	TS35		
Dimensions (W x H x D)	35 x 159 x 134 mm (without antenna) 35 x 255 x 134 mm (with UMTS antenna)		
Housing	Metal, IP20		
Technical data (housing)			
	111aA. UUU IIIA @ 24 V DC		
Input Voltage Current consumption	1 x 24 VDC (7 to 36 volts) max. 600 mA @ 24 VDC		
Power			
Reset button	Restoring the factory default		
Digital inputs	 "Cut" -> Disconnects physically (link down) the WAN port (24 V) "VPN-initiate" -> Enables a pre-configured VPN connection (24 V) 		
	 "Alarm" -> Indicates a configurable network status or error (24V out) "VPN-active" -> Indicates an active VPN connection (24 V out) 		

Weidmüller – Partner in Industrial Connectivity.

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.



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