FL MGUARD RS4000 TX/TX-P - Router

2702259

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The figure shows a version of the product

Security appliance for process applications, 10/100 Mbps, NAT, firewall, 250 VPN tunnel, MODBUS inspector, OPC inspector

Product description

Router with intelligent firewall and OPC/Modbus inspector with ATEX and IECEx approval, from FW 8.5: VPN for up to 250 tunnels, CIFS Integrity Monitoring, redundancy function, metal housing, slot for SD memory card, extended temperature range

Your advantages

- Central management tool
- OPC inspector
- Deep Packet Inspection
- OPC firewall
- Maximum security
- Maximum performance

Commercial data

Item number	2702259
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN29
Product key	DNN331
GTIN	4055626064161
Weight per piece (including packing)	869.3 g
Weight per piece (excluding packing)	660 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Dimensions

Width	45 mm
Height	130 mm
Depth	120.6 mm

Notes

Note on application

Note on application	Only for industrial use

Material specifications

Color	silver
Housing material	Metal

Interfaces

Ethernet

Connection method	RJ45
Transmission speed	10/100 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
Transmission length	100 m (per segment)
Signal LEDs	Supply voltage, data transmission, error, link, activity
No. of channels	2 (RJ45 ports)

Signal contact

Connection method	Plug-in/screw connection via COMBICON
Additional text	not electrically isolated

VPN - release button

Connection method	24 V DC/250 mA can be connected as an option

System properties

System requirements

Supported browsers	HTTPS support required

Output data

Signal contact

Control voltage	24 V DC (typical)
Control current	250 mA (short-circuit-proof)

Product properties

Product type	Security router for the DIN rail
Type	Stand-alone

Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Security functions

Basic functions	Router with intelligent firewall and OPC/Modbus inspector, FW 8.5 or later: VPN for up to 250 tunnels, CIFS Integrity Monitoring, redundancy function, metal housing, slot for SD memory card, extended temperature range, high-performance firewall / VPN: up to 124 Mbps / 40 Mbps
1:1 Network Address Translation (NAT) in the VPN	supported
Number of VPN tunnels	250 (Firmware 8.5 or later)
Authentication	X.509v3 certificates with RSA or PSK
Data integrity	MD5, SHA-1, SHA 256, SHA-512
Filtering	MAC and IP addresses, ports, protocols
Firewall data throughput	max. 124 Mbps (Router mode, default firewall rules, bidirectional throughput)
	max. 61 Mbps (Stealth mode, default firewall rules, bidirectional throughput)
Firewall rules	Configurable stateful inspection firewall with full scope of functions, deep packet inspection for OPC classic
Internet Protocol Security (IPsec) mode	ESP tunnel / ESP transport
Dynamic Host Configuration Protocol (DHCP) support	Server or Relay Agent
Link Layer Discovery Protocol (LLDP)	As per protocol 802.2
Network Time Protocol (NTP) client	Client
Remote Syslog Logging	on externals server
Routing	Standard routing, NAT, 1:1-NAT, port forwarding
Protection against	IP spoofing, DoS and Syn Flood Protection
Encryption methods	DES, 3DES, AES-128, -192, -256
Virtual private network (VPN) throughput	max. 40 Mbps (Router mode, VPN bidirectional throughput)
	max. 27 Mbps (Stealth mode, VPN bidirectional throughput)

Electrical properties

Local diagnostics	P1, P2 Supply voltage US1, US2 Green LED
	One LED per port Link active Green LED
Maximum power dissipation for nominal condition	2.4 W

Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	11 V DC ... 36 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm²
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Max. current consumption	0.24 A
Typical current consumption	100 mA (at U_S = 24 V DC)
Ground connection	Via DIN rail and/or COMBICON (optional)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Permissible humidity (operation)	5 % ... 95 % (5% ... 95% relative humidity, temporary condensation in accordance with Class 3K7 / IEC EN 60721-3-3 (except for wind-driven precipitation and ice buildup))

Approvals

Conformity/Approvals

Conformance	CE-compliant
IECEx	Ex nA IIC T4 Gc

Mounting

Mounting type	DIN rail mounting

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) 6 kV contact discharge, 8 kV air discharge
	IEC 61000-6-2 IEC 61000-4-3 (immunity to radiated interference) 10 V/m (80 MHz ... 2000 MHz)
	IEC 61000-6-2 IEC 61000-4-4 (burst) 2 kV power line, 1kV data line
	IEC 61000-6-2 IEC 61000-4-5 (surge) power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
	IEC 61000-6-2 IEC 61000-4-6 (immunity to conducted interference) 3 V (10 kHz ... 150 kHz), 10 V (150 kHz ... 80 MHz)
Noise immunity	EN 61000-6-2:2005

Noise emission

Standards/regulations	EN 55022 / Class B

Signaling

Status display	LEDs:P1, P2, Fault, State, Error, LAN, WAN

Classifications

ECLASS

ECLASS-13.0	19170406

ETIM

ETIM 9.0	EC001478

UNSPSC

UNSPSC 21.0	43222600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	442152c9-1a89-4526-9a53-bb27cc48e3bc

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