

## Router - FL MGUARD RS4000 TX/TX-P - 2702259

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

The figure shows a version of the product

### 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

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



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 064161
GTIN	4055626064161
Weight per Piece (excluding packing)	880.000 g
Custom tariff number	85176200
Country of origin	Germany

### Technical data

Note

# Router - FL MGUARD RS4000 TX/TX-P - 2702259

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	45 mm
Height	130 mm
Depth	114 mm

### 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 95%, temporary condensation according to 3K7/IEC EN 60721-3-3 (except for wind-driven precipitation and ice buildup))

### Interfaces

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

### Function

Basic functions	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, high-performance firewall/VPN: up to 124 Mbps / 40 Mbps
Supported browsers	HTTPS support required
Processor	330 MHz
Status and diagnostic indicators	LEDs:P1, P2, Fault, State, Error, LAN, WAN
Signal contact control voltage	24 V DC (typical)
Signal contact control current	250 mA (short-circuit-proof)

### Security functions

Dynamic Host Configuration Protocol (DHCP) support	Server or Relay Agent
Network Time Protocol (NTP) client	Client
Link Layer Discovery Protocol (LLDP)	As per protocol 802.2
Remote Syslog Logging	On external server
Virtual private network (VPN) throughput	max. 40 Mbps (Router mode, VPN bidirectional throughput)

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#### Security functions

	max. 27 Mbps (Stealth mode, VPN bidirectional throughput)
Number of VPN tunnels	250 (Firmware 8.5 or later)
Encryption methods	DES, 3DES, AES-128, -192, -256
Internet Protocol Security (IPsec) mode	ESP tunnel / ESP transport
Authentication	X.509v3 certificates with RSA or PSK
Data integrity	MD5, SHA-1, SHA 256, SHA-512
1:1 Network Address Translation (NAT) in the VPN	Supported
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
Filtering	MAC and IP addresses, ports, protocols
Protection against	IP spoofing, DoS and Syn Flood Protection
Routing	Standard routing, NAT, 1:1-NAT, port forwarding

#### Network expansion parameters

Maximum conductor length (twisted pair)	100 m
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#### Supply voltage

Supply voltage	24 V DC (redundant)
Residual ripple	3.6 V <sub>pp</sub> (within the permitted voltage range)
Supply voltage range	11 V DC ... 36 V DC
Typical current consumption	100 mA (at U <sub>S</sub> = 24 V DC)
Max. current consumption	0.24 A

#### General

Mounting type	DIN rail
Type AX	Stand-alone
Net weight	660 g
Housing material	Metal

#### Conformity with EMC directives

Developed in acc. with standard	IEC 61000-6-2
Test standard	IEC 61000-4-2 (ESD)
Test result	6 kV contact discharge, 8 kV air discharge
Test standard	IEC 61000-4-3 (immunity to radiated interference)
Test result	10 V/m (80 MHz ... 2000 MHz)
Test standard	IEC 61000-4-4 (burst)

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### Conformity with EMC directives

Test result	2 kV power line, 1kV data line
Test standard	IEC 61000-4-5 (surge)
Test result	power line: 2 kV (line/earth), 1 kV (line/line), 1kV data line
Test standard	IEC 61000-4-6 (immunity to conducted interference)
Test result	3 V (10 kHz ... 150 kHz), 10 V (150 kHz ... 80 MHz)

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	Half-sine 30g, 18 ms, 3 axes
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	5g, 150 Hz
Noise emission	EN 55022 / Class B
Noise immunity	EN 61000-6-2:2005
Conformance	CE-compliant
ATEX	# II 3G Ex nA IIC T4 Gc
IECEX	Ex nA IIC T4 Gc

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 10.0.1	19170406
eCl@ss 11.0	19170406
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19170100
eCl@ss 7.0	19170103
eCl@ss 9.0	19170103

### ETIM

ETIM 6.0	EC001478
ETIM 7.0	EC001478

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## Classifications

### UNSPSC

UNSPSC 13.2	43222609
UNSPSC 18.0	43222609
UNSPSC 19.0	43222609
UNSPSC 20.0	43222609
UNSPSC 21.0	43222609

## Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

#### Ex Approvals

IECEX / UL Listed / cUL Listed / ATEX / cULus Listed

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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EAC			RU*DE*08.B.00731/19
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cULus Listed			
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