

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

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The figure shows the standard item

Why buy this product

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



Key Commercial Data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 STK |
| Weight per Piece (excluding packing) | 880.000 g |
| Custom tariff number | 85176200 |
| Country of origin | Germany |

Technical data

Note

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

Dimensions

| | |
|--------|--------|
| Width | 45 mm |
| Height | 130 mm |
| Depth | 114 mm |

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Technical data

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 1 | Ethernet |
| No. of ports | 2 (RJ45 ports) |
| Connection method | RJ45 |
| Transmission physics | Ethernet in RJ45 twisted pair |
| Transmission speed | 10/100 MBit/s |
| Transmission length | 100 m (per segment) |
| Signal LEDs | Supply voltage, data transmission, error, link, activity |
| Interface 2 | Signal contact |
| Connection method | Plug-in/screw connection via COMBICON |
| Interface 3 | VPN - release button |
| Connection method | 24 V DC/250 mA can be connected as an option |

Function

| | |
|----------------------------------|--|
| Basic functions | Router with intelligent firewall and OPC inspector with ATEX and IECEx approval (VPN for up to 250 tunnels with additional license as an option), CIFS Integrity Monitoring (as an option), 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 resistant) |

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) |
| | max. 27 Mbps (Stealth mode, VPN bidirectional throughput) |
| Number of VPN tunnels | 0 (up to 250 tunnels with additional license as an option) |
| Encryption methods | DES, 3DES, AES-128, -192, -256 |

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Security functions

| | |
|--|--|
| Internet Protocol Security (IPsec) mode | ESP tunnel / ESP transport |
| Authentication | X.509v3 certificates with RSA or PSK |
| Data integrity | MD5, SHA-1 |
| 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

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|---|-------|
| Maximum conductor length (twisted pair) | 100 m |
|---|-------|

Supply voltage

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|-----------------------------|--|
| Supply voltage | 24 V DC (redundant) |
| Residual ripple | 3.6 V _{PP} (within the permitted voltage range) |
| Supply voltage range | 9 V DC ... 36 V DC |
| Typical current consumption | 100 mA (at U _S = 24 V DC) |
| Max. current consumption | 0.24 A |

General

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|------------------|-------------|
| 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) |
| 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 |

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Technical data

Conformity with EMC directives

| | |
|---------------|---|
| 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 2004/108/EC |
| 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) |
| 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) |
| 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 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 19030101 |
| eCl@ss 6.0 | 19170103 |
| eCl@ss 8.0 | 19170103 |
| eCl@ss 9.0 | 19170103 |

ETIM

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|----------|----------|
| ETIM 5.0 | EC001478 |
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Approvals

Approvals

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

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

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

Approval details

UL Listed  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 238705

cUL Listed  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 238705

cULus Listed 

Accessories

Accessories

License

License - FL MGUARD LIC FW/VPN RD - 2702193



License for activating the firewall/router and VPN redundancy function on an FL MGUARD device pair

License - FL MGUARD LIC FW RD - 2701356



License for activating the firewall/router redundancy function on an FL MGUARD device pair

Router - FL MGuard RS4000 TX/TX-P - 2702259

Accessories

License - FL MGuard LIC LIFETIME FW - 2700184



License for lifetime software update of FL MGuard field devices.

License - FL MGuard LIC CIM - 2701083



License for activating CIFS Integrity Monitoring (CIM) on an FL MGuard

License - FL MGuard LIC VPN-10 - 2700194



License for up to 10 additional VPN online connections

License - FL MGuard LIC VPN-250 - 2700193



License for up to 250 additional VPN online connections

License - FL MGuard LIC OPC INSP - 2702191



License for activating the OPC inspector function on an FL MGuard

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Accessories

License - FL MGUARD LIC VPN-100 - 2702546



License for up to 100 additional VPN online connections

Parameterization memory

Memory - SD FLASH 512MB - 2988146



Program and configuration memory, plug-in, 512 Mbyte.
