

## Router - FL MGuard RS4000 TX/TX - 2700634

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Security appliance in metal housing, with extended temperature range, SD card slot, intelligent firewall with full scope of functions for maximum security and easy configuration, router with NAT/1:1 NAT, optional VPN/CIFS integrity monitoring

### Why buy this product

- Maximum security
- Maximum performance
- Central management tool

### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 STK   |
| GTIN                                 | <br>4 046356 597272 |
| GTIN                                 | 4046356597272   |
| Weight per Piece (excluding packing) | 725.000 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 |

#### Ambient conditions

|   |                  |
|---|------------------|
| Degree of protection                    | IP20             |
| Ambient temperature (operation)         | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

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## Technical data

### Ambient conditions

|                                  |                               |
|----------------------------------|-------------------------------|
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |
|----------------------------------|-------------------------------|

### Interfaces

|                      |  |
|----------------------|--|
| Interface 1          | Ethernet   |
| No. of ports         | 2 (RJ45 ports)   |
| Connection method    | RJ45   |
| 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 |
| 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 (VPN, 10 tunnels as an option, up to 250 with additional license), CIFS Integrity Monitoring (as an option), metal housing, slot for SD memory card, extended temperature range, high-performance firewall/VPN (as an option): up to 124 Mbps/40 Mbps (as an option) |
| 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  |
| Internet Protocol Security (IPsec) mode            | ESP tunnel / ESP transport  |
| Authentication                                     | X.509v3 certificates with RSA or PSK  |
| Data integrity                                     | MD5, SHA-1  |
| 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        |

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### Security functions

|                    |   |
|--------------------|---|
| 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 |
|---|-------|

### 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 (unloaded outputs)                                |

### General

|                  |             |
|------------------|-------------|
| Mounting type    | DIN rail    |
| Type AX          | Stand-alone |
| Net weight       | 725 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 |
| 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         |
| 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)                             |

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## Technical data

### Standards and Regulations

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

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27240409 |
| eCl@ss 4.1 | 27240409 |
| eCl@ss 5.0 | 27242215 |
| eCl@ss 5.1 | 19030101 |
| eCl@ss 6.0 | 19170103 |
| eCl@ss 7.0 | 19170103 |
| eCl@ss 8.0 | 19170103 |
| eCl@ss 9.0 | 19170103 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001423 |
| ETIM 4.0 | EC001478 |
| ETIM 5.0 | EC001478 |
| ETIM 6.0 | EC001478 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 20142601 |
| UNSPSC 7.0901 | 20142601 |
| UNSPSC 11     | 20142601 |
| UNSPSC 12.01  | 20142601 |
| UNSPSC 13.2   | 43222609 |

## Approvals

### Approvals

# Router - FL MGuard RS4000 TX/TX - 2700634

## Approvals

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### Approvals

EAC / EAC / UL Listed / cUL Listed / cULus Listed

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### Ex Approvals

UL Listed / cUL Listed / cULus Listed

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### Approval details

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU *-<br>DE.A*30.B.01735 |
|-----|--|--------------------------|

|     |  |               |
|-----|--|---------------|
| EAC |  | EAC-Zulassung |
|-----|--|---------------|

|           |  |   |               |
|-----------|--|---|---------------|
| 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 |
|-----------|--|---|---------------|

|            |  |   |               |
|------------|--|---|---------------|
| 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 |
|------------|--|---|---------------|

|              |  |  |  |
|--------------|--|--|--|
| 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

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## Router - FL MGuard RS4000 TX/TX - 2700634

### Accessories

License - FL MGuard LIC FW RD - 2701356



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

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License - FL MGuard LIC LIFETIME FW - 2700184



License for lifetime software update of FL MGuard field devices.

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License - FL MGuard LIC CIM - 2701083



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

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License - FL MGuard LIC VPN-10 - 2700194



License for up to 10 additional VPN online connections

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License - FL MGuard LIC VPN-250 - 2700193



License for up to 250 additional VPN online connections

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## Router - FL MGuard RS4000 TX/TX - 2700634

### Accessories

License - FL MGuard LIC OPC INSP - 2702191



License for activating the OPC inspector function on an FL MGuard

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License - FL MGuard LIC VPN-100 - 2702546



License for up to 100 additional VPN online connections

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### Parameterization memory

Memory - SD FLASH 512MB - 2988146



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

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### Remote control software

License - MGuard SECURE VPN CLIENT LIC - 2702579



License for mGuard Secure VPN Client v10.0x

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