

FL MGUARD RS4000 TX/TX-P - Router



2702259

<https://www.phoenixcontact.com/us/products/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

- 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

Functionality

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

System requirements

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|--------------------|------------------------|
| Supported browsers | HTTPS support required |
|--------------------|------------------------|

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

| | |
|--|--|
| 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 |
| Dynamic Host Configuration Protocol (DHCP) support | Server or Relay Agent |
| 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 |
| 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 |
| Internet Protocol Security (IPsec) mode | ESP tunnel / ESP transport |
| Link Layer Discovery Protocol (LLDP) | As per protocol 802.2 |
| Network Time Protocol (NTP) client | Client |
| Remote Syslog Logging | on external 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 mm ² |
| 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) |

Function

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|--------------------------------|------------------------------|
| Signal contact control voltage | 24 V DC (typical) |
| Signal contact control current | 250 mA (short-circuit-proof) |

Environmental and real-life conditions

Ambient conditions

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|---|--|
| 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

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

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Approvals

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cULus Listed

Approval ID: E238705



cUL Listed

Approval ID: E196811



UL Listed

Approval ID: FILE E 196811

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Classifications

ECLASS

ECLASS-13.0

19170406

ETIM

ETIM 9.0

EC001478

UNSPSC

UNSPSC 21.0

43222600

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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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