

FL MGUARD GT/GT VPN - Router



2700198

<https://www.phoenixcontact.com/us/products/2700198>

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Security appliance, 10/100/1000 Mbps, NAT, VPN, advanced firewall, SFP combo ports, functionally extendable with licenses

The figure shows a version of the product

Your advantages

- Intelligent stateful inspection firewall
- Central management tool
- Secure remote services (VPN) according to IPsec standard
- Replaceable configuration memory
- Flexible routing
- Comprehensive connection options
- Fast operation by means of configuration and remote maintenance portal

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2700198 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN30 |
| Product key | DNN331 |
| GTIN | 4046356499668 |
| Weight per piece (including packing) | 829.5 g |
| Weight per piece (excluding packing) | 829.5 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

Technical data

Dimensions

| | |
|--------|--------|
| Width | 128 mm |
| Height | 110 mm |
| Depth | 69 mm |

Notes

Note on application

| | |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

Material specifications

| | |
|------------------|---------------|
| Color | gray aluminum |
| Housing material | Metal |

Interfaces

Ethernet (combo)

| | |
|-------------------------------|--|
| Connection method | SFP/RJ45 |
| Note on the connection method | Either SFP port or RJ45 port active |
| Transmission speed | 10/100/1000 Mbps (SFP module: 100/1000 Mbps) |
| Transmission physics | Copper or SFP module |
| Transmission length | 100 m (per segment) |
| Signal LEDs | Supply voltage, data transmission, error, link, activity |
| No. of channels | 2 (Combo ports) |

Serial (RS-232)

| | |
|-------------------|---|
| Connection method | RS-232-C, 6-pos. MINI-DIN socket (PS/2) |
|-------------------|---|

Fiber optic interface

| | |
|----------------------|--|
| Connection method | SFP |
| Transmission speed | 1000 Mbps (full duplex) |
| Transmission physics | Depending on the SFP module |
| Transmission length | up to 80 km (Depending on the fiber/SFP module used) |

System properties

Functionality

| | |
|-----------------|---|
| Basic functions | Router with intelligent firewall and Gigabit connectivity and VPN |
|-----------------|---|

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 | 10 (up to 250 tunnels with additional license as an option) |
| 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. 417 Mbps (Router mode, default firewall rules, bidirectional throughput) |
| | max. 174 Mbps (Stealth mode, default firewall rules, bidirectional throughput) |
| Firewall rules | Configurable stateful inspection firewall |
| Basic functions | Router with intelligent firewall and Gigabit connectivity and VPN |
| 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. 106 Mbps (Router mode, VPN bidirectional throughput) |
| | max. 66 Mbps (Stealth mode, VPN bidirectional throughput) |

Electrical properties

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|---|----------------|
| Power consumption | 6.5 W |
| Maximum power dissipation for nominal condition | typ. 6.48 W |
| Test section | 500 V DC 1 min |

Supply

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|-----------------------------|--|
| Supply voltage (DC) | 24 V DC (redundant) |
| Supply voltage range | 18 V DC ... 32 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 | 270 mA |
| Typical current consumption | 270 mA (at U _S = 24 V DC) |

Function

| | |
|--------------------------------|-------------------|
| Signal contact control voltage | 24 V DC (typical) |
| Signal contact control current | 270 mA (typical) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

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| | |
|--|--|
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |
| Shock | DIN EN 60068-2-27 |
| Vibration (operation) | in accordance with IEC 60068-2-6: 5g, 10 Hz ... 150 Hz |
| Air pressure (operation) | 86 hPa ... 108 kPa (1500 m above sea level) |
| Air pressure (storage/transport) | 66 hPa ... 108 kPa (3500 m above sea level) |

Standards and regulations

| | |
|---|-------------------------------|
| Free from substances that could impair the application of coating | In acc. with VW specification |
|---|-------------------------------|

Mounting

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|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

EMC data

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|---------------------------------|--|
| 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 61000-6-4 |
|-----------------------|--------------|

Signaling

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|----------------|---|
| Status display | LEDs: LNK, Mode, Inf, ACT, SPD, FD, US1, US2, Fail, and 7-segment display |
|----------------|---|

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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

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|---|--------------------|
| 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 | 02993b10-0d9a-42f3-b788-8bb85c3d9006 |

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com