# FL MGUARD 2102 - Router

1357828

https://www.phoenixcontact.com/us/products/1357828

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CRA-READY



The figure shows the standard item

Security-Router series, 2 RJ45 ports 10/100/1000 Mbps, degree of protection: IP20, Ambient temperature (operation): -20 °C ... 60 °C, Supply voltage range: 12 V DC ... 36 V DC, NAT, VPN, Product certified in accordance with IEC 62443-4-2, The product is being prepared for compliance with the Cyber Resilience Act (CRA)

## Product description

Security remote maintenance router

## Your advantages

- Central management tool
- Maximum performance
- Maximum security
- Remote maintenance with maximum security
- mGuard security technology

ELEKTROGERÄTE RÜCKNAHME

## Commercial data

| | |
|---|---|
| Item number | 1357828 |

| | |
|---|---|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN28 |
| Product key | DNN311 |
| GTIN | 4063151685737 |
| Weight per piece (including packing) | 383 g |
| Weight per piece (excluding packing) | 310 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

# Technical data

## Dimensions

| | |
|---|---|
| Width | 45 mm |
| Height | 130 mm |
| Depth | 133.8 mm |

## Notes

| | |
|---|---|
| Note on application | Only for industrial use |
| Note on application | As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA. |

## Material specifications

| | |
|---|---|
| Color (Housing) | light gray (RAL 7035) |
| Housing material | Plastic |

## Interfaces

### Ethernet

| | |
|---|---|
| Connection method | RJ45 |
| Transmission speed | 10/100/1000 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) |

### 2x digital output, 2x digital input

| | |
|---|---|
| Connection method | Push-in-/Spring-cage connection |
| Additional text | not electrically isolated |

### VPN - release button

| | |
|---|---|
| Connection method | Push-in-/Spring-cage connection |

## System properties

### System requirements

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

## Output data

### Signal contact

| | |
|---|---|
| Control voltage | 24 V DC (typical) |
| Control current | 250 mA (short-circuit-proof) |

## Product properties

| | |
|---|---|
| Product type | Security router for the DIN rail |
| Product family | Security-Router |
| Type | Stand-alone |
| Special properties | NAT |
| | VPN |
| | Product certified in accordance with IEC 62443-4-2 |
| | The product is being prepared for compliance with the Cyber Resilience Act (CRA) |

Insulation characteristics

| | |
|---|---|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |

Security functions

| | |
|---|---|
| Basic functions | Router with firewall and VPN for 2 tunnels (fixed), plastic housing, slot for SD memory card, extended temperature range, router with firewall and VPN for 2 tunnels (fixed), plastic housing, slot for SD memory card, extended temperature range |
| 1:1 Network Address Translation (NAT) in the VPN | supported |
| Number of VPN tunnels | 2 (Fixed, Ipsec (IETF standard)) |
| Authentication | X.509v3 certificates with RSA or PSK |
| Data integrity | MD5, SHA-1, SHA 256, SHA-512 |
| Filtering | Incoming or outgoing traffic |
| Firewall data throughput | max. 940 Mbps (Router mode, default firewall rules, unidirectional throughput) |
| | max. 850 Mbps (Stealth mode, default firewall rules, unidirectional throughput) |
| Internet Protocol Security (IPsec) mode | ESP tunnel / ESP transport |
| Dynamic Host Configuration Protocol (DHCP) support | Server or Relay Agent |
| Link Layer Discovery Protocol (LLDP) | As per protocol 802.2 |
| Network Time Protocol (NTP) client | Client/server |
| Remote Syslog Logging | on externals 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. 250 Mbps (Router mode, VPN unidirectional throughput) |

## Electrical properties

| | |
|---|---|
| Local diagnostics | US1 Supply voltage US1 Green LED |
| | One LED per port Link active / Speed Green / green/yellow LED |
| Maximum power dissipation for nominal condition | typ. 2.88 W |

Supply

| | |
|---|---|
| Supply voltage (DC) | 24 V DC |
| Supply voltage range | 12 V DC ... 36 V DC |
| Power supply connection | via COMBICON, max. conductor cross-section 1.5 mm² |
| Residual ripple | 3.6 $V_{PP}$ (within the permitted voltage range) |
| Max. current consumption | 1 A |

| | |
|---|---|
| Typical current consumption | 120 mA (at $U_S$ = 24 V DC) |
| Ground connection | Via DIN rail and/or COMBICON (optional) |

## Connection data

| | |
|---|---|
| Connection method | RJ45 jack, shielded |
| Connection method | Push-in spring connection |
| Conductor cross-section, rigid | 0.2 mm² ... 1.5 mm² |
| Conductor cross-section, flexible | 0.2 mm² ... 1.5 mm² |
| Conductor cross-section AWG | 24 ... 16 |

## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |

## Standards and regulations

| | |
|---|---|
| Free from substances that could impair the application of coating | Yes |

## Approvals

### Conformity/Approvals

| | |
|---|---|
| Conformance | CE-compliant |

## 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 ... 6000 MHz) |
| | IEC 61000-6-2 IEC 61000-4-4 (burst) 2 kV power line, 2 kV data line |
| | IEC 61000-6-2 IEC 61000-4-5 (surge) power line: 1 kV (line/earth), 0.5 kV (line/line), 1 kV data line |
| | IEC 61000-6-2 IEC 61000-4-6 (immunity to conducted interference) 10 V (150 kHz ... 80 MHz) |
| Noise immunity | EN 61000-6-2:2005 |

### Noise emission

| | |
|---|---|
| Standards/regulations | EN 61000-6-4 |

## Signaling

| | |
|---|---|
| Status display | LEDs: US1, FAIL, Link, and Activity |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1357828

**cUL Listed**
Approval ID: E238705

**Cybersecurity Certificate**
Approval ID: 968 CSP 1029.00 25

**cULus Listed**
Approval ID: E366272

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 19170406 |
| ECLASS-15.0 | 19170406 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001478 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 43222600 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 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.) | 4,4'-isopropylidenediphenol(CAS: 80-05-7) |
| | Lead(CAS: 7439-92-1) |
| SCIP | 8f39634a-e411-41a9-aa22-773c4dc15627 |

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