

FL MGUARD 4302 - Router



1357840

<https://www.phoenixcontact.com/us/products/1357840>

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The figure shows the standard item

Security-Router series, 2 RJ45 ports 10/100/1000 Mbps, degree of protection: IP20, Ambient temperature (operation): -40 °C ... 60 °C, Supply voltage range: 12 V DC ... 36 V DC, NAT, VPN, Development process certified in accordance with IEC 62443-4-1, Product certified in accordance with IEC 62443-4-2, Configurable stateful inspection firewall with full scope of functions, safe isolation for PROFI-safe in accordance with IEC 61784-3-3, user firewall, conditional firewall, rule sets

Product description

Security appliance

Your advantages

- Central management tool
- Maximum security
- Maximum performance
- Integration of IT and OT security
- mGuard security technology

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1357840 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN29 |
| Product key | DNN311 |
| GTIN | 4063151685744 |
| Weight per piece (including packing) | 388 g |
| Weight per piece (excluding packing) | 315 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

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Technical data

Dimensions

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

Notes

Note on application

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

Material specifications

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

Interfaces

Ethernet (RJ45)

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

Functionality

| | |
|-----------------|--|
| Basic functions | Security appliance with intelligent firewall and VPN for 250 tunnels, plastic housing, slot for SD memory card, extended temperature range, Gigabit wire speed |
|-----------------|--|

System requirements

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

Product properties

| | |
|----------------|----------------------------------|
| Product type | Security router for the DIN rail |
| Product family | Security-Router |
| Type | Stand-alone |

| | |
|--------------------|--|
| Special properties | NAT |
| | VPN |
| | Development process certified in accordance with IEC 62443-4-1 |
| | Product certified in accordance with IEC 62443-4-2 |

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 |
| 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. 940 Mbps (Router mode, default firewall rules, unidirectional throughput) |
| | max. 850 Mbps (Stealth mode, default firewall rules, unidirectional throughput) |
| Firewall rules | Configurable stateful inspection firewall with full scope of functions, safe isolation for PROFI-safe in accordance with IEC 61784-3-3, user firewall, conditional firewall, rule sets |
| Basic functions | Security appliance with intelligent firewall and VPN for 250 tunnels, plastic housing, slot for SD memory card, extended temperature range, Gigabit wire speed |
| 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/server |
| 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. 250 Mbps (Router mode, VPN unidirectional throughput) |

Electrical properties

| | |
|---|---|
| Local diagnostics | US1, US2 Supply voltage US1, US2 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 (redundant) |
| Supply voltage range | 12 V DC ... 36 V DC |
| Power supply connection | via COMBICON, max. conductor cross-section 1.5 mm ² |
| 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 and 25 °C ambient temperature) |

Function

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

Connection data

| | |
|-----------------------------------|---|
| Connection method | RJ45 jack, shielded |
| Connection method | Push-in spring connection |
| Conductor cross-section, rigid | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 24 ... 16 |

Environmental and real-life conditions

Ambient conditions

| | |
|--|-------------------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °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

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Status display

LEDs: US1, US2, FAIL, Link, and Activity

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Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1357840>

BSH

Approval ID: BSH 1122



cUL Listed

Approval ID: E238705

DNV

Approval ID: TAA0000382

Cybersecurity Certificate

Approval ID: 968 CSP 1029.00 25



cUL Listed

Approval ID: E238705

BSH

Approval ID: BSH 1122

DNV

Approval ID: TAA0000382



cULus Listed

Approval ID: E366272



cULus Listed

Approval ID: E366272

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Classifications

ECLASS

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

ETIM

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

UNSPSC

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

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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 | bb34652b-b9eb-48ff-a4c2-968a9645ddb4 |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 59.03 kg CO2e |
|---------|---------------|

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