

# FL MGUARD RS2000 TX/TX VPN - Router



2700642

<https://www.phoenixcontact.com/us/products/2700642>

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Remote maintenance router, 10/100 Mbps, NAT, VPN, firewall



## Your advantages

- Central management tool
- Maximum performance
- Maximum security

## Commercial data

Item number	2700642
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN28
Product key	DNN331
Catalog page	Page 335 (C-6-2019)
GTIN	4046356613859
Weight per piece (including packing)	888.6 g
Weight per piece (excluding packing)	725 g
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Dimensions

Width	45 mm
Height	130 mm
Depth	114 mm

### 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
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## System properties

### Functionality

Basic functions	Router with firewall and VPN for 2 tunnels (fixed), metal housing, slot for any SD memory card, extended temperature range, high-performance firewall/VPN: up to 124 Mbps / 40 Mbps
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### System requirements

Supported browsers	HTTPS support required
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## 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)
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### Security functions

1:1 Network Address Translation (NAT) in the VPN	Supported
Number of VPN tunnels	2 (Fixed, Ipsec (IETF standard))

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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	Incoming or outgoing traffic
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	simple stateful inspection firewall, no user firewall, no conditional firewall, no rule sets
Basic functions	Router with firewall and VPN for 2 tunnels (fixed), metal housing, slot for any 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
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	5.76 W

## Supply

Supply voltage (DC)	24 V DC
Supply voltage range	11 V DC ... 36 V DC
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm <sup>2</sup>
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Max. current consumption	0.24 A
Typical current consumption	100 mA (at U <sub>S</sub> = 24 V DC)

## Function

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

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

Free from substances that could impair the application of coating	Yes
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## Approvals

### Conformity/Approvals

Conformance	CE-compliant
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## Mounting

Mounting type	DIN rail mounting
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## EMC data

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
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 55022 / Class B

## Signaling

Status display	LEDs:P1, P2, Fault, State, Error, LAN, WAN
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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2700642>



**EAC**

Approval ID: RU\*DE\*08.B.00731/19



**UL Listed**

Approval ID: FILE E 238705



**cUL Listed**

Approval ID: FILE E 238705



**KC**

Approval ID: MSIP-REI-PCK-2700642



**cUL Listed**

Approval ID: FILE E 366272



**UL Listed**

Approval ID: FILE E 366272

**cULus Listed**

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# FL MGuard RS2000 TX/TX VPN - Router



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## Classifications

### ECLASS

ECLASS-11.0	19170406
ECLASS-12.0	19170406
ECLASS-13.0	19170406

### ETIM

ETIM 9.0	EC001478
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### UNSPSC

UNSPSC 21.0	43222600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a)-I, 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	d15b0737-14ec-4b4c-8e58-f0535cbc52fd

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## Accessories

### FL CAT5 PATCH 0,3 - Patch cable

2832250

<https://www.phoenixcontact.com/us/products/2832250>

Patch cable, CAT5, assembled, 0.3 m



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### FL CAT5 PATCH 0,5 - Patch cable

2832263

<https://www.phoenixcontact.com/us/products/2832263>

Patch cable, CAT5, assembled, 0.5 m





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## FL CAT5 PATCH 1,0 - Patch cable

2832276

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Patch cable, CAT5, assembled, 1 m



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## FL CAT5 PATCH 1,5 - Patch cable

2832221

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Patch cable, CAT5, assembled, 1.5 m



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## FL CAT5 PATCH 2,0 - Patch cable

2832289

<https://www.phoenixcontact.com/us/products/2832289>

Patch cable, CAT5, assembled, 2 m



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## FL CAT5 PATCH 3,0 - Patch cable

2832292

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Patch cable, CAT5, assembled, 3 m



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## FL CAT5 PATCH 5,0 - Patch cable

2832580

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Patch cable, CAT5, assembled, 5 m



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## FL CAT5 PATCH 7,5 - Patch cable

2832616

<https://www.phoenixcontact.com/us/products/2832616>

Patch cable, CAT5, assembled, 7.5 m



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## FL CAT5 PATCH 10,0 - Patch cable

2832629

<https://www.phoenixcontact.com/us/products/2832629>

Patch cable, CAT5, assembled, 10 m



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## FL CAT6 PATCH 12,5 - Patch cable

2891369

<https://www.phoenixcontact.com/us/products/2891369>

Patch cable, CAT6, preassembled, 12.5 m



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## FL CAT6 PATCH 15,0 - Patch cable

2891372

<https://www.phoenixcontact.com/us/products/2891372>



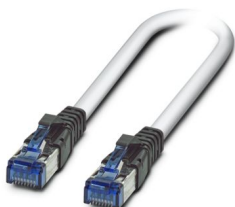
Patch cable, degree of protection: IP20, cable length: 15 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

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## FL CAT6 PATCH 20,0 - Patch cable

2891576

<https://www.phoenixcontact.com/us/products/2891576>



Patch cable, degree of protection: IP20, cable length: 20 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

# FL MGUARD RS2000 TX/TX VPN - Router

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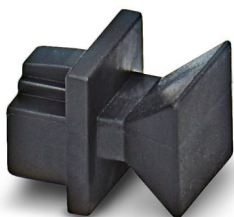
<https://www.phoenixcontact.com/us/products/2700642>



## FL RJ45 PROTECT CAP - Dust protection

2832991

<https://www.phoenixcontact.com/us/products/2832991>



Dust protection caps for RJ45 socket

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## FL PLUG RJ45 GR/2 - RJ45 connector

2744856

<https://www.phoenixcontact.com/us/products/2744856>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Plastic, connection method: Crimp connection, connection cross section: AWG 26- 24, cable outlet: straight, color: gray, Ethernet

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## FL PLUG RJ45 GN/2 - RJ45 connector

2744571

<https://www.phoenixcontact.com/us/products/2744571>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Plastic, connection method: Crimp connection, connection cross section: AWG 26- 24, cable outlet: straight, color: green, Ethernet

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## FL CRIMPTOOL - Assembly tool

2744869

<https://www.phoenixcontact.com/us/products/2744869>



Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45..., for assembly on site

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## FL MGUARD LIC FW MNT 2030 - License

1493074

<https://www.phoenixcontact.com/us/products/1493074>



License for firmware maintenance until 2030

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## MGUARD SECURE VPN CLIENT LIC - License

2702579

<https://www.phoenixcontact.com/us/products/2702579>



License for mGuard Secure VPN Client v11.x



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## FL MGuard DM UNLIMITED - Software

2981974

<https://www.phoenixcontact.com/us/products/2981974>



Central device management software for MGuard devices for any number of devices in the field. For installation on a PC. No additional licenses required. Download trial version for up to 10 devices.

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## SD FLASH 2GB - Program / configuration memory

2988162

<https://www.phoenixcontact.com/us/products/2988162>



Program and configuration memory, for extending the internal flash memory, pluggable, 2 GB.

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