

## Router - FL MGuard RS2000 TX/TX VPN - 2700642

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Security appliance in metal housing, with extended temperature range, SD card slot, up to 2 VPN tunnels, 2-click firewall for maximum ease of configuration, router with NAT/1:1 NAT

The figure shows the standard item

### Why buy this product

- Maximum security
- Maximum performance
- Central management tool



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 613859
Weight per Piece (excluding packing)	725.0 g
Custom tariff number	85176200
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
-------------------------	---

#### Dimensions

Width	45 mm
Height	130 mm
Depth	114 mm

#### 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)

# Router - FL MGUARD RS2000 TX/TX VPN - 2700642

## Technical data

### Interfaces

Interface 1	Ethernet
No. of ports	2 (RJ45 ports)
Connection method	RJ45
Transmission physics	Ethernet in RJ45 twisted pair
Transmission speed	10/100 MBit/s
Transmission length	100 m (per segment)
Signal LEDs	Supply voltage, data transmission, error, link, activity
Interface 2	Signal contact
Connection method	Plug-in/screw connection via COMBICON
Interface 3	VPN - release button
Connection method	24 V DC/250 mA can be connected as an option

### Function

Basic functions	Router with simplified 2-click 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
Supported browsers	HTTPS support required
Processor	330 MHz
Status and diagnostic indicators	LEDs:P1, P2, Fault, State, Error, LAN, WAN
Signal contact control voltage	24 V DC (typical)
Signal contact control current	250 mA (short-circuit resistant)

### Security functions

Dynamic Host Configuration Protocol (DHCP) support	Server or Relay Agent
Network Time Protocol (NTP) client	Client
Link Layer Discovery Protocol (LLDP)	As per protocol 802.2
Remote Syslog Logging	On external server
Virtual private network (VPN) throughput	max. 40 Mbps (Router mode, VPN bidirectional throughput) max. 27 Mbps (Stealth mode, VPN bidirectional throughput)
Number of VPN tunnels	2 (Fixed, Ipsec (IETF standard))
Encryption methods	DES, 3DES, AES-128, -192, -256
Internet Protocol Security (IPsec) mode	ESP tunnel / ESP transport
Authentication	X.509v3 certificates with RSA or PSK
Data integrity	MD5, SHA-1
1:1 Network Address Translation (NAT) in the VPN	Supported
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	Simplified 2-click stateful inspection firewall
Filtering	Incoming or outgoing traffic
Routing	Standard routing, NAT, 1:1-NAT, port forwarding

### Network expansion parameters

# Router - FL MGUARD RS2000 TX/TX VPN - 2700642

## Technical data

### Network expansion parameters

Maximum conductor length (twisted pair)	100 m
---	-------

### Supply voltage

Supply voltage	24 V DC
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Supply voltage range	9 V DC ... 36 V DC
Typical current consumption	100 mA (at U <sub>S</sub> = 24 V DC)
Max. current consumption	0.24 A

### General

Mounting type	DIN rail
Type AX	Stand-alone
Net weight	725 g
Housing material	Metal

### Mechanical tests

Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	Half-sine 30g, 18 ms, 3 axes
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	5g, 150 Hz

### Conformity with EMC directives

Developed in acc. with standard	IEC 61000-6.2
Test standard	IEC 61000-4-2 (ESD)
Test result	6 kV contact discharge, 8 kV air discharge
Test standard	IEC 61000-4-3 (immunity to radiated interference)
Test result	10 V/m (80 MHz ... 2000 MHz)
Test standard	IEC 61000-4-4 (burst)
Test result	2 kV power line, 1kV data line
Test standard	IEC 61000-4-5 (surge)
Test result	power line: 2 kV (line/earth), 1 kV (line/line), 1kV data line
Test standard	IEC 61000-4-6 (immunity to conducted interference)
Test result	3 V (10 kHz – 150 kHz), 10 V (150 kHz – 80 MHz)

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Developed in acc. with standard	IEC 61000-6.2
Test standard	IEC 61000-4-2 (ESD)
Test result	6 kV contact discharge, 8 kV air discharge
Test standard	IEC 61000-4-3 (immunity to radiated interference)
Test result	10 V/m (80 MHz ... 2000 MHz)
Test standard	IEC 61000-4-4 (burst)
Test result	2 kV power line, 1kV data line

# Router - FL MGUARD RS2000 TX/TX VPN - 2700642

## Technical data

### Standards and Regulations

Test standard	IEC 61000-4-5 (surge)
Test result	power line: 2 kV (line/earth), 1 kV (line/line), 1kV data line
Test standard	IEC 61000-4-6 (immunity to conducted interference)
Test result	3 V (10 kHz – 150 kHz), 10 V (150 kHz – 80 MHz)
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	Half-sine 30g, 18 ms, 3 axes
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	5g, 150 Hz
Noise emission	EN 55022 / Class B
Noise immunity	EN 61000-6-2:2005

## Classifications

### eCl@ss

eCl@ss 4.0	27240409
eCl@ss 4.1	27240409
eCl@ss 5.0	27242215
eCl@ss 5.1	19030101
eCl@ss 6.0	19170103
eCl@ss 7.0	19170103
eCl@ss 8.0	19170103

### ETIM

ETIM 3.0	EC001423
ETIM 4.0	EC001478
ETIM 5.0	EC001478

### UNSPSC

UNSPSC 6.01	20142601
UNSPSC 7.0901	20142601
UNSPSC 11	20142601
UNSPSC 12.01	20142601
UNSPSC 13.2	20142601

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / EAC / EAC / KC / cULus Listed

# Router - FL MGuard RS2000 TX/TX VPN - 2700642

## Approvals

Ex Approvals

UL Listed / cUL Listed / cULus Listed

---

Approvals submitted

---

### Approval details


UL Listed 

cUL Listed 

EAC

EAC

KC

cULus Listed 

## Accessories

Accessories

License

License - FL MGuard LIC LIFETIME FW - 2700184



License for lifetime software update of FL MGuard field devices.

---

Parameterization memory

## Router - FL MGUARD RS2000 TX/TX VPN - 2700642

### Accessories

Memory - SD FLASH 256MB - 2988120



Program and configuration memory, plug-in, 256 MB

---

Memory - SD FLASH 512MB - 2988146



Program and configuration memory, plug-in, 512 Mbyte.

---

### Patch cable

Patch cable - FL CAT5 PATCH 0,3 - 2832250



Patch cable, CAT5, assembled, 0.3 m

---

Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m

---

Patch cable - FL CAT5 PATCH 1,0 - 2832276



Patch cable, CAT5, assembled, 1.0 m

---

## Router - FL MGUARD RS2000 TX/TX VPN - 2700642

### Accessories

Patch cable - FL CAT5 PATCH 1,5 - 2832221



Patch cable, CAT5, assembled, 1.5 m

---

Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2.0 m

---

Patch cable - FL CAT5 PATCH 3,0 - 2832292



Patch cable, CAT5, assembled, 3.0 m

---

Patch cable - FL CAT5 PATCH 5,0 - 2832580



Patch cable, CAT5, assembled, 5.0 m

---

Patch cable - FL CAT5 PATCH 7,5 - 2832616



Patch cable, CAT5, assembled, 7.5 m

---

## Router - FL MGuard RS2000 TX/TX VPN - 2700642

### Accessories

Patch cable - FL CAT5 PATCH 10,0 - 2832629



Patch cable, CAT5, assembled, 10.0 m

---

Patch cable - FL CAT6 PATCH 12,5 - 2891369



Patch cable, CAT6, pre-assembled, 12.5 m

---

Patch cable - FL CAT6 PATCH 15,0 - 2891372



Patch cable, CAT6, pre-assembled, 15.0 m

---

Patch cable - FL CAT6 PATCH 20,0 - 2891576



Patch cable, CAT6, pre-assembled, 20.0 m

---

### Plug

RJ45 connector - FL PLUG RJ45 GR/2 - 2744856



RJ45 connector, shielded, with bend protection sleeve, 2 pieces, gray for straight cables, for assembly on site. For connections that are not crossed, it is recommended that you use the connector set with gray bend protection sleeve.

---



## Router - FL MGUARD RS2000 TX/TX VPN - 2700642

### Accessories

RJ45 connector - FL PLUG RJ45 GN/2 - 2744571



RJ45 connector, shielded, with bend protection sleeve, 2 pieces, green for crossed cables, for assembly on site. For connections that are crossed, it is recommended that the connector set with green bend protection sleeves is used.

---

### Protective cap

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 socket

---

### Universal tools

Assembly tool - FL CRIMPTOOL - 2744869



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