

## Router - FL MGuard RS4000 TX/TX VPN-M - 2702465

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Security appliance with maritime approvals, metal housing, with extended temperature range, SD card slot, VPN for 10 VPN tunnels (up to 250 tunnels with additional license as an option), intelligent firewall with full scope of functions for maximum security and ease of configuration, router with NAT/1:1 NAT, optional CIFS integrity monitoring

The figure shows a version of the product

### Your advantages

- Maximum security
- Maximum performance
- Central management tool



### Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626230788

### Technical data

#### Note

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

Width	45 mm
Height	130 mm
Depth	114 mm

#### Ambient conditions

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

# Router - FL MGUARD RS4000 TX/TX VPN-M - 2702465

## Technical data

### Interfaces

Interface	Ethernet
No. of ports	2 (RJ45 ports)
Transmission physics	Ethernet in RJ45 twisted pair
Transmission speed	10/100 Mbps
Transmission length	100 m (per segment)
Signal LEDs	Supply voltage, data transmission, error, link, activity
Interface	Signal contact
Connection method	Plug-in/screw connection via COMBICON

### Function

Basic functions	Router with intelligent firewall and VPN for 10 tunnels (up to 250 supported with optional additional license), CIFS Integrity Monitoring (as an option), metal housing, slot for 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-proof)

### 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	10 (up to 250 tunnels with additional license as an option)
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, SHA 256, SHA-512
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	Configurable stateful inspection firewall with full scope of functions
Filtering	MAC and IP addresses, ports, protocols
Protection against	IP spoofing, DoS and Syn Flood Protection
Routing	Standard routing, NAT, 1:1-NAT, port forwarding

### Network expansion parameters

# Router - FL MGUARD RS4000 TX/TX VPN-M - 2702465

## Technical data

### Network expansion parameters

Maximum conductor length (twisted pair)	100 m
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### Supply voltage

Supply voltage	24 V DC (redundant)
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Supply voltage range	11 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

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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
Conformance	CE-compliant

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 10.0.1	19170405
eCl@ss 4.0	27240400
eCl@ss 4.1	27240400
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19170100
eCl@ss 7.0	19170103
eCl@ss 8.0	19170103
eCl@ss 9.0	19170103

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## Classifications

### ETIM

ETIM 3.0	EC001423
ETIM 4.0	EC001478
ETIM 5.0	EC001478
ETIM 6.0	EC001478
ETIM 7.0	EC001478

### UNSPSC

UNSPSC 6.01	20142601
UNSPSC 7.0901	20142601
UNSPSC 11	20142601
UNSPSC 12.01	20142601
UNSPSC 13.2	43222609
UNSPSC 18.0	43222609
UNSPSC 19.0	43222609
UNSPSC 20.0	43222609
UNSPSC 21.0	43222609

## Approvals

### Approvals

#### Approvals

DNV GL / BV / LR / ABS / BSH / UL Listed / cUL Listed / EAC / cULus Listed

#### Ex Approvals

UL Listed / cUL Listed / cULus Listed

### Approval details

DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAA000009T
BV		<a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a>	42674/A2 BV
LR		<a href="http://www.lr.org/en">http://www.lr.org/en</a>	08/20033

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## Approvals

ABS	<a href="http://www.eagle.org/eagleExternalPortalWEB/">http://www.eagle.org/eagleExternalPortalWEB/</a>	17-HG1621873-PDA
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BSH		927
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UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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EAC			RU*DE*08.B.00731/19
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cULus Listed			
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## Accessories

### Accessories

### License

License - FL MGuard LIC FW/VPN RD - 2702193



License for activating the firewall/router and VPN redundancy function on an FL MGuard device pair

License - FL MGuard LIC FW RD - 2701356



License for activating the firewall/router redundancy function on an FL MGuard device pair

## Router - FL MGuard RS4000 TX/TX VPN-M - 2702465

### Accessories

License - FL MGuard LIC LIFETIME FW - 2700184



License for lifetime software update of FL MGuard field devices.

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License - FL MGuard LIC CIM - 2701083



License for activating CIFS Integrity Monitoring (CIM) on an FL MGuard

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License - FL MGuard LIC VPN-250 GROUP - 2700192



License for up to 250 additional VPN online connections

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License - FL MGuard LIC VPN-250 - 2700193



License for up to 250 additional VPN online connections

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License - FL MGuard LIC OPC INSP - 2702191



License for activating the OPC inspector function on an FL MGuard

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## Router - FL MGuard RS4000 TX/TX VPN-M - 2702465

### Accessories

License - FL MGuard LIC Modbus Inspector - 2702980



License for activating the Modbus inspector function on an FL/TC MGuard

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### Parameterization memory

Memory - SD FLASH 512MB - 2988146



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

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### Remote control software

License - MGuard Secure VPN Client LIC - 2702579



License for mGuard Secure VPN Client v11.x

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