

## 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

### Why buy this product

- Maximum security
- Maximum performance
- Central management tool

### Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 230788
GTIN	4055626230788
Weight per Piece (excluding packing)	880.000 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
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#### Dimensions

Width	45 mm
Height	130 mm
Depth	114 mm

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## Technical data

### 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)

### Interfaces

Interface 1	Ethernet
No. of ports	2 (RJ45 ports)
Connection method	RJ45
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 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 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 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	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

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### Security functions

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	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

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	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

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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## Approvals

### Approvals

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#### Approvals

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

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#### Ex Approvals

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## Approvals

### Approval details

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/A1 BV
ABS		<a href="http://www.eagle.org/eagleExternalPortalWEB/">http://www.eagle.org/eagleExternalPortalWEB/</a>	15-HG1448013-1-PDA
BSH		<a href="http://www.bsh.de/de/index.jsp">http://www.bsh.de/de/index.jsp</a>	927
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
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
DNV GL		<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	TAA000009T
LR		<a href="http://www.lr.org/en">http://www.lr.org/en</a>	08/20033
cULus Listed			