Chipsmall

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PHŒNIX CONTACT

Router - FL MGUARD RS4000 TX/TX-P - 2702259

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The figure shows the standard item

Why buy this product

☑ Maximum security

☑ OPC firewall

☑ Deep Packet Inspection

☑ OPC inspector

☑ Maximum performance

☑ Central management tool

RoHS

Key Commercial Data

Packing unit	1 STK
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

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)	-40 °C ... 70 °C
Permissible humidity (operation)	5 % ... 95 % (5 % ... 95%, relative humidity 95%, temporary condensation according to 3K7/IEC EN 60721-3-3 (except for wind-driven precipitation and ice buildup))

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 intelligent firewall and OPC inspector with ATEX and IECEx approval (VPN for up to 250 tunnels with additional license as an option), 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 externals 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	0 (up to 250 tunnels with additional license as an option)
Encryption methods	DES, 3DES, AES-128, -192, -256

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Security functions

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	Configurable stateful inspection firewall with full scope of functions, deep packet inspection for OPC classic
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

Supply voltage

Supply voltage	24 V DC (redundant)
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Supply voltage range	9 V DC ... 36 V DC
Typical current consumption	100 mA (at U_S = 24 V DC)
Max. current consumption	0.24 A

General

Mounting type	DIN rail
Type AX	Stand-alone
Net weight	660 g
Housing material	Metal

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

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Technical data

Conformity with EMC directives

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
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)
Noise emission	EN 55022 / Class B
Noise immunity	EN 61000-6-2:2005
Conformance	CE-compliant
ATEX	# II 3G Ex nA IIC T4 Gc
IECEx	Ex nA IIC T4 Gc

Classifications

eCl@ss

eCl@ss 5.1	19030101
eCl@ss 6.0	19170103
eCl@ss 8.0	19170103
eCl@ss 9.0	19170103

ETIM

ETIM 5.0	EC001478

Approvals

Approvals

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Router - FL MGUARD RS4000 TX/TX-P - 2702259

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

IECEx / UL Listed / cUL Listed / ATEX / cULus Listed

Approval details

UL Listed (UL) http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 238705

cUL Listed (UL) http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 238705

cULus Listed (UL)us

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

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License - FL MGUARD LIC FW RD - 2701356

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

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Router - FL MGUARD RS4000 TX/TX-P - 2702259

Accessories

License - FL MGUARD LIC LIFETIME FW - 2700184

License for lifetime software update of FL MGUARD field devices.

License - FL MGUARD LIC CIM - 2701083

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

License - FL MGUARD LIC VPN-10 - 2700194

License for up to 10 additional VPN online connections

License - FL MGUARD LIC VPN-250 - 2700193

License for up to 250 additional VPN online connections

License - FL MGUARD LIC OPC INSP - 2702191

License for activating the OPC inspector function on an FL MGUARD

Router - FL MGUARD RS4000 TX/TX-P - 2702259

Accessories

License - FL MGUARD LIC VPN-100 - 2702546

License for up to 100 additional VPN online connections

Parameterization memory

Memory - SD FLASH 512MB - 2988146

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