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Router - FL MGUARD RS2000 TX/TX VPN - 2700642

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Security appliance in metal housing, with extended temperature range, SD card slot, up to 2 VPN tunnels, simple firewall, router with NAT/1:1 NAT

The figure shows the standard item

Your advantages

☑ Maximum security

☑ Maximum performance

☑ Central management tool

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356613859
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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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)

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 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
Management	Web-based management (HTTPS)
	SNMPv1-v3 (Use of SNMPv3 recommended)
Diagnostic functions	SysLog/Remote SysLog
	SNMP-Traps
	QoS, ToS/DSCP
	LLDP (Link Layer Discovery Protocol)
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 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	2 (Fixed, Ipsec (IETF standard))
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, 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	Simple stateful inspection firewall, no user firewall, no conditional firewall, no rule sets
Filtering	Incoming or outgoing traffic
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
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Supply voltage range	11 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	725 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
Test standard	IEC 61000-4-6 (immunity to conducted interference)

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Conformity with EMC directives

Test result	3 V (10 kHz ... 150 kHz), 10 V (150 kHz ... 80 MHz)

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
Noise emission	EN 55022 / Class B
Noise immunity	EN 61000-6-2:2005
Conformance	CE-compliant

Environmental Product Compliance

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

Classifications

eCl@ss

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

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

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Classifications

UNSPSC

UNSPSC 13.2	43222609

Approvals

Approvals

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

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

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

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

EAC		EAC-Zulassung

EAC		RU *-DE.A*30.B.01735

KC		http://eng.kcc.go.kr/user/ehpMain.do	MSIP-REI-PCK-2700642

cULus Listed		

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Accessories

Accessories

License

License - FL MGUARD LIC LIFETIME FW - 2700184

License for lifetime software update of FL MGUARD field devices.

Parameterization memory

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

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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 m

Patch cable - FL CAT5 PATCH 3,0 - 2832292

Patch cable, CAT5, assembled, 3 m

Patch cable - FL CAT5 PATCH 5,0 - 2832580

Patch cable, CAT5, assembled, 5 m

Patch cable - FL CAT5 PATCH 7,5 - 2832616

Patch cable, CAT5, assembled, 7.5 m

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Accessories

Patch cable - FL CAT5 PATCH 10,0 - 2832629

Patch cable, CAT5, assembled, 10 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.

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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

Remote control software

License - MGUARD SECURE VPN CLIENT LIC - 2702579

License for mGuard Secure VPN Client v11.x

Universal tools

Assembly tool - FL CRIMPTOOL - 2744869

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

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