

Router - FL MGUARD GT/GT - 2700197

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Routers with intelligent firewall, up to 200 Mbps of data throughput, Gigabit connectivity, SFP Slots Stateful Inspection Firewall for maximum security and very simple configuration, interchangeable configuration memory

Product Features

- Replaceable configuration memory
- Flexible routing
- Comprehensive connection options
- Fast operation by means of configuration and remote maintenance portal
- Secure remote services (VPN) according to IPsec standard
- Intelligent stateful inspection firewall
- Central management tool



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	760.0 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Dimensions

Width	128 mm
Height	110 mm
Depth	69 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

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Technical data

Ambient conditions

Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	86 hPa ... 108 kPa (1500 m above sea level)
Air pressure (storage/transport)	66 hPa ... 108 kPa (3500 m above sea level)

Interfaces

Interface 1	Ethernet (combo)
No. of ports	2 (Combo ports)
Connection method	Combo
Note on connection method	Either SFP port or RJ45 port active
Transmission physics	Copper or SFP module
Transmission speed	10/100/1000 Mbit/s (SFP module: 100/1000 Mbps)
Transmission length	100 m (per segment)
Signal LEDs	Supply voltage, data transmission, error, link, activity
Interface 2	Serial (RS-232)
Connection method	RS-232-C, 6-pos. MINI-DIN socket (PS/2)
Interface 3	Fiber optic interface
Connection method	SFP ports
Transmission physics	Depending on the SFP module
Transmission speed	1000 MBit/s (full duplex)
Transmission length	up to 80 km (Depending on the fiber/SFP module used)

Function

Basic functions	Router with intelligent firewall and Gigabit connectivity
Supported browsers	HTTPS support required
Status and diagnostic indicators	LEDs: LNK, Mode, Inf, ACT, SPD, FD, US1, US2, Fail, and 7-segment display
Signal contact control voltage	24 V DC (typical)
Signal contact control current	270 mA (typical)

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. 106 Mbps (Router 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
Firewall data throughput	max. 417 Mbps (Router mode, default firewall rules, bidirectional throughput)

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Technical data

Security functions

	max. 174 Mbps (Stealth mode, default firewall rules, bidirectional throughput)
Firewall rules	Configurable stateful inspection firewall
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 _{PP} (within the permitted voltage range)
Supply voltage range	18 V DC ... 32 V DC
Typical current consumption	270 mA (at U _S = 24 V DC)
Max. current consumption	270 mA

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
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)

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Technical data

Standards and Regulations

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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)
Test section	For one minute 500 V DC
Shock	DIN EN 60068-2-27
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2:2005
Vibration (storage/transport)	5g, 10 Hz ... 150 Hz, in accordance with IEC 60068-2-6
Free from substances that could impair the application of coating	In acc. with VW specification
Vibration (operation)	in accordance with IEC 60068-2-6: 5g, 10 Hz ... 150 Hz

Classifications

eCl@ss

eCl@ss 4.0	27240409
eCl@ss 4.1	27240409
eCl@ss 5.0	27242215
eCl@ss 5.1	19030117
eCl@ss 6.0	19170103
eCl@ss 7.0	19170103
eCl@ss 8.0	19170103

ETIM

ETIM 2.0	EC001423
ETIM 3.0	EC001423
ETIM 4.0	EC001478
ETIM 5.0	EC001478

UNSPSC

UNSPSC 6.01	20142601
UNSPSC 7.0901	20142601
UNSPSC 11	20142601

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Classifications

UNSPSC

UNSPSC 12.01	20142601
UNSPSC 13.2	20142601

Approvals

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UL Listed / cUL Listed / LR / GL / BV / DNV / ABS / RINA / BV / DNV / ABS / RINA / GL-SW / EAC / EAC / DNV / GL / cULus Listed

Ex Approvals


Approvals submitted

Approval details

UL Listed



cUL Listed



LR

GL

BV


DNV

ABS

RINA

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Approvals

BV
DNV
ABS
RINA
GL-SW
EAC
EAC
DNV
GL
cULus Listed 

Accessories

Accessories

Configuration memory

Configuration memory - FL MEM PLUG - 2891259



Exchangeable configuration memory of the device settings for simple device exchange and set-up

License

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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-250 GROUP - 2700192



License - FL MGUARD LIC VPN-250 - 2700193



License - FL MGUARD LIC VPN-10 - 2700194



Patch cable

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Accessories

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

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

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Accessories

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

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

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Accessories

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.

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

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Accessories

SFP module

Media module - FL SFP LX - 2891767



Gigabit SFP module for transmission up to 30 km with a wavelength of 1310 nm.

Media module - FL SFP SX - 2891754



Gigabit SFP module for transmission up to 1 km with a wavelength of 850 nm.

Media module - FL SFP LH - 2989912



Gigabit SFP module for transmission up to 80 km with a wavelength of 1,550 nm.

Media module - FL SFP FX - 2891081



The small form-factor plug-in module provides a fiber optic interface with a data transmission speed of 100 Mbps with a wavelength of 1310 nm (long).

Media module - FL SFP FX SM - 2891082



The small form-factor plug-in module provides a fiber optic interface with a data transmission speed of 100 Mbps with a wavelength of 1310 nm (long).

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Accessories

Universal tools

Assembly tool - FL CRIMPTOOL - 2744869



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

Mouser Electronics

Authorized Distributor

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