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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 GRM
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
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)

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Technical data

Ambient conditions

Air pressure (storage/transport)	66 hPa ... 108 kPa (3500 m above sea level)
Noise immunity	EN 61000-6-2:2005

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: 1000 Mbps)
Transmission length	100 m (per segment)
Signal LEDs	Supply voltage, data transmission, error, link, activity
Interface 2	Serial (V.24 (RS-232))
Connection method	V.24 (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 externals server
Firewall data throughput	max. 417 Mbps (Router mode, VPN bidirectional throughput)
	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

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Technical data

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	18 V DC ... 32 V DC
Typical current consumption	270 mA
Max. current consumption	270 mA

General

Mounting type	DIN rail
Type AX	Stand-alone
Weight	660 g
Housing material	Metal
Noise emission	EN 61000-6-4

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)

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

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Classifications

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
UNSPSC 12.01	20142601
UNSPSC 13.2	20142601

Approvals

Approvals

Approvals

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

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Ex Approvals

Approvals submitted

Approval details

UL Listed

cUL Listed

LR

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Approvals

GL

BV

DNV

ABS

RINA

UL Listed

cUL Listed

LR

GL

BV

DNV

ABS

RINA

GL-SW

cUL Listed

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Approvals

GL

cULus Listed

cULus Listed

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 for configuration of any number of tunnels and for the operation of 250 VPN tunnels on FL MGUARD.

License - FL MGUARD LIC VPN-250 - 2700193

License for configuration and operation of 250 VPN tunnels on MGUARD.

License - FL MGUARD LIC VPN-10 - 2700194

License for configuration and operation of 10 VPN tunnels on FL MGUARD.

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

The small form-factor plug-in module is a plug-in fiber optic interface with a data transmission speed of 1000 Mbps, which is used in Gigabit Ethernet. Fiberglass module with a wavelength of 1300 nm (long).

Media module - FL SFP SX - 2891754

The small form-factor plug-in module is a plug-in fiber optic interface with a data transmission speed of 1000 Mbps, which is used in Gigabit Ethernet. Fiberglass module with a wavelength of 850 nm.

Media module - FL SFP LH - 2989912

The small form-factor plug-in module is a plug-in fiber optic interface with a data transmission speed of 1000 Mbps, which is used in Gigabit Ethernet. Fiberglass module with a wavelength of 1550 nm (long haul).

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