FL MGUARD GT/GT - Router

2700197

https://www.phoenixcontact.com/in/products/2700197

Security appliance, 10/100/1000 Mbps, NAT, advanced firewall, SFP combo ports, functionally extendable with licenses

Your advantages

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

Commercial Data

Item number	2700197
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DNN
Product Key	DNN311
Catalog Page	Page 335 (C-6-2019)
GTIN	4046356499651
Weight per Piece (including packing)	828 g
Weight per Piece (excluding packing)	660 g
Customs tariff number	85176200
Country of origin	DE

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Technical Data

Dimensions

Width	128 mm
Height	110 mm
Depth	69 mm

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area

Material specifications

Color	gray aluminum
Housing material	Metal

Interfaces

Ethernet (combo)

Connection method	SFP/RJ45
Note on the connection method	Either SFP port or RJ45 port active
Transmission speed	10/100/1000 Mbps (SFP module: 100/1000 Mbps)
Transmission physics	Copper or SFP module
Transmission length	100 m (per segment)
Signal LEDs	Supply voltage, data transmission, error, link, activity
No. of channels	2 (Combo ports)

Serial (RS-232)

Connection method	RS-232-C, 6-pos. MINI-DIN socket (PS/2)

Fiber optic interface

Connection method	SFP
Transmission speed	1000 Mbps (full duplex)
Transmission physics	Depending on the SFP module
Transmission length	up to 80 km (Depending on the fiber/SFP module used)

System properties

Functionality

Basic functions	Router with intelligent firewall and Gigabit connectivity

System requirements

Supported browsers	HTTPS support required

Product properties

Type	Stand-Alone

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Product type	Security router for the DIN rail

Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Security functions

Number of VPN tunnels	0 (up to 250 tunnels with additional license as an option)
Data integrity	MD5, SHA-1, SHA 256, SHA-512
Dynamic Host Configuration Protocol (DHCP) support	Server or Relay Agent
Filtering	MAC and IP addresses, ports, protocols
Firewall data throughput	max. 417 Mbps (Router mode, default firewall rules, bidirectional throughput)
	max. 174 Mbps (Stealth mode, default firewall rules, bidirectional throughput)
Firewall rules	Configurable stateful inspection firewall
Basic functions	Router with intelligent firewall and Gigabit connectivity
Link Layer Discovery Protocol (LLDP)	As per protocol 802.2
Network Time Protocol (NTP) client	Client
Remote Syslog Logging	On externals server
Routing	Standard routing, NAT, 1:1-NAT, port forwarding
Protection against	IP spoofing, DoS and Syn Flood Protection
Encryption methods	DES, 3DES, AES-128, -192, -256
Virtual private network (VPN) throughput	max. 106 Mbps (Router mode, VPN bidirectional throughput)

Electrical properties

Power consumption	6.5 W
Maximum power dissipation for nominal condition	6.48 W
Test voltage	500 V DC
Test section	for one minute 500 V DC

Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	18 V DC ... 32 V DC
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm²
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Max. current consumption	270 mA
Typical current consumption	270 mA (at U_S = 24 V DC)

Function

Signal contact control voltage	24 V DC (typical)
Signal contact control current	270 mA (typical)

Environmental and real-life conditions

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)
Shock	DIN EN 60068-2-27
Vibration (operation)	in accordance with IEC 60068-2-6: 5g, 10 Hz ... 150 Hz
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)

Standards and regulations

Free from substances that could impair the application of coating	In acc. with VW specification

Mounting

Mounting type	DIN rail mounting

EMC data

Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) 6 kV contact discharge, 8 kV air discharge
	IEC 61000-6-2 IEC 61000-4-3 (immunity to radiated interference) 10 V/m (80 MHz ... 2000 MHz)
	IEC 61000-6-2 IEC 61000-4-4 (burst) 2 kV power line, 1kV data line
	IEC 61000-6-2 IEC 61000-4-5 (surge) power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
	IEC 61000-6-2 IEC 61000-4-6 (immunity to conducted interference) 3 V (10 kHz ... 150 kHz), 10 V (150 kHz ... 80 MHz)
Noise immunity	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4

Signaling

Status display	LEDs: LNK, Mode, Inf, ACT, SPD, FD, US1, US2, Fail, and 7-segment display

Approvals

EAC
Approval ID: RU*DE*08.B.00731/19

DNV GL
Approval ID: TAA00002CU

LR
Approval ID: LR22191720TA

BV
Approval ID: 42674/B0 BV

UL Listed
Approval ID: FILE E 238705

cUL Listed
Approval ID: FILE E 238705

RINA
Approval ID: ELE121121XG

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Classifications

ECLASS

ECLASS-11.0	19170406
ECLASS-12.0	19170406
ECLASS-13.0	19170406

ETIM

ETIM 8.0	EC001478

UNSPSC

UNSPSC 21.0	43222600

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Accessories

FL CAT5 PATCH 0,3 - Patch cable

2832250

https://www.phoenixcontact.com/in/products/2832250

Patch cable, CAT5, assembled, 0.3 m

FL CAT5 PATCH 0,5 - Patch cable

2832263

https://www.phoenixcontact.com/in/products/2832263

Patch cable, CAT5, assembled, 0.5 m

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FL CAT5 PATCH 1,0 - Patch cable

2832276

https://www.phoenixcontact.com/in/products/2832276

Patch cable, CAT5, assembled, 1 m

FL CAT5 PATCH 1,5 - Patch cable

2832221

https://www.phoenixcontact.com/in/products/2832221

Patch cable, CAT5, assembled, 1.5 m

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FL CAT5 PATCH 2,0 - Patch cable

2832289

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Patch cable, CAT5, assembled, 2 m

FL CAT5 PATCH 3,0 - Patch cable

2832292

https://www.phoenixcontact.com/in/products/2832292

Patch cable, CAT5, assembled, 3 m

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FL CAT5 PATCH 5,0 - Patch cable

2832580

https://www.phoenixcontact.com/in/products/2832580

Patch cable, CAT5, assembled, 5 m

FL CAT5 PATCH 7,5 - Patch cable

2832616

https://www.phoenixcontact.com/in/products/2832616

Patch cable, CAT5, assembled, 7.5 m

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FL CAT5 PATCH 10,0 - Patch cable

2832629

https://www.phoenixcontact.com/in/products/2832629

Patch cable, CAT5, assembled, 10 m

FL CAT6 PATCH 12,5 - Patch cable

2891369

https://www.phoenixcontact.com/in/products/2891369
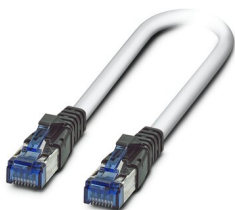
Patch cable, CAT6, pre-assembled, 12.5 m

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https://www.phoenixcontact.com/in/products/2700197

FL CAT6 PATCH 15,0 - Patch cable

2891372

https://www.phoenixcontact.com/in/products/2891372
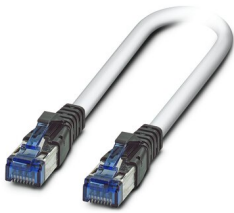
Patch cable, CAT6, pre-assembled, 15.0 m

FL CAT6 PATCH 20,0 - Patch cable

2891576

https://www.phoenixcontact.com/in/products/2891576
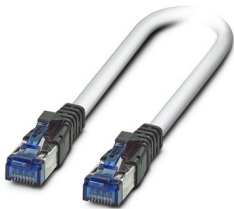
Patch cable, CAT6, pre-assembled, 20.0 m

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https://www.phoenixcontact.com/in/products/2700197

FL RJ45 PROTECT CAP - Dust protection

2832991

https://www.phoenixcontact.com/in/products/2832991
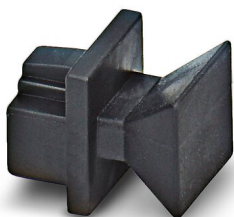
Dust protection caps for RJ45 socket

FL PLUG RJ45 GR/2 - RJ45 connector

2744856

https://www.phoenixcontact.com/in/products/2744856

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Plastic, connection method: Crimp connection, cable outlet: straight, color: green, Ethernet

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FL PLUG RJ45 GN/2 - RJ45 connector

2744571

https://www.phoenixcontact.com/in/products/2744571

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Plastic, connection method: Crimp connection, cable outlet: straight, color: green, Ethernet

FL CRIMPTOOL - Assembly tool

2744869

https://www.phoenixcontact.com/in/products/2744869

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

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https://www.phoenixcontact.com/in/products/2700197

FL MEM PLUG - Configuration memory

2891259

https://www.phoenixcontact.com/in/products/2891259

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

FL MGUARD LIC CIM - License

2701083

https://www.phoenixcontact.com/in/products/2701083

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

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https://www.phoenixcontact.com/in/products/2700197

FL MGUARD LIC VPN-10 - License

2700194

https://www.phoenixcontact.com/in/products/2700194

License for up to 10 additional VPN online connections

MGUARD SECURE VPN CLIENT LIC - License

2702579

https://www.phoenixcontact.com/in/products/2702579

License for mGuard Secure VPN Client v11.x

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2700197

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FL MGUARD DM UNLIMITED - Software

2981974

https://www.phoenixcontact.com/in/products/2981974

Central device management software for MGUARD devices for any number of devices in the field. For installation on a PC. No additional licenses required. Download trial version for up to 10 devices.

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