FL MGUARD 2105 - Router

1357850

https://www.phoenixcontact.com/in/products/1357850

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Security-Router, 5 RJ45 ports 10/100/1000 Mbps, NAT, VPN, Simple stateful inspection firewall, safe isolation for PROFIsafe in accordance with IEC 61784-3-3

Product description

Development process certified in accordance with IEC 62443-4-1

Your advantages

- Central management tool
- Maximum performance
- Maximum security
- Remote maintenance with maximum security
- mGuard security technology

Commercial data

Item number	1357850
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNN
Product key	DNN311
GTIN	4063151686819
Weight per piece (including packing)	430 g
Weight per piece (excluding packing)	327 g
Customs tariff number	85176200
Country of origin	DE

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Technical data

Dimensions

Width	45 mm
Height	130 mm
Depth	133.8 mm

Notes

Note on application

Note on application	Only for industrial use

Material specifications

Color	gray
Housing material	Plastic

Interfaces

Ethernet

Connection method	RJ45
Transmission speed	10/100/1000 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
Transmission length	100 m (per segment)
Signal LEDs	Supply voltage, data transmission, error, link, activity
No. of channels	5 (RJ45 ports)

2x digital output, 2x digital input

Connection method	Push-in-/Spring-cage connection
Additional text	not electrically isolated

System properties

Functionality

Basic functions	Router with firewall and VPN for 2 tunnels (fixed), plastic housing, slot for SD memory card, extended temperature range, router with firewall and VPN for 2 tunnels (fixed), plastic housing, slot for SD memory card, extended temperature range, integrated 4-port switch

System requirements

Supported browsers	HTTPS support required

Product properties

Product type	Security router for the DIN rail
Product family	Security-Router
Type	Stand-Alone
Special properties	NAT

	VPN

Insulation characteristics

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

Security functions

1:1 Network Address Translation (NAT) in the VPN	supported
Number of VPN tunnels	2 (Fixed, Ipsec (IETF standard))
Authentication	X.509v3 certificates with RSA or PSK
Data integrity	MD5, SHA-1, SHA 256, SHA-512
Dynamic Host Configuration Protocol (DHCP) support	Server or Relay Agent
Filtering	Incoming or outgoing traffic
Firewall data throughput	max. 940 Mbps (Router mode, default firewall rules, unidirectional throughput)
	max. 850 Mbps (Stealth mode, default firewall rules, unidirectional throughput)
Firewall rules	Simple stateful inspection firewall, safe isolation for PROFIsafe in accordance with IEC 61784-3-3
Basic functions	Router with firewall and VPN for 2 tunnels (fixed), plastic housing, slot for SD memory card, extended temperature range, router with firewall and VPN for 2 tunnels (fixed), plastic housing, slot for SD memory card, extended temperature range, integrated 4-port switch
Internet Protocol Security (IPsec) mode	ESP tunnel / ESP transport
Link Layer Discovery Protocol (LLDP)	As per protocol 802.2
Network Time Protocol (NTP) client	Client/server
Remote Syslog Logging	on externals server
Routing	Standard routing, NAT, 1:1-NAT, port forwarding
Encryption methods	DES, 3DES, AES-128, -192, -256
Virtual private network (VPN) throughput	max. 250 Mbps (Router mode, VPN unidirectional throughput)

Electrical properties

Local diagnostics	US1 Supply voltage US1 Green LED
	One LED per port Link active / Speed Green / green/yellow LED
Maximum power dissipation for nominal condition	typ. 2.88 W

Supply

Supply voltage (DC)	24 V DC
Supply voltage range	12 V DC ... 36 V DC
Power supply connection	via COMBICON, max. conductor cross section 1.5 mm²
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Max. current consumption	1 A
Typical current consumption	120 mA (at U_S = 24 V DC)

Function

Signal contact control voltage	24 V DC (typical)
Signal contact control current	250 mA (short-circuit-proof)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

Standards and regulations

Free from substances that could impair the application of coating	Yes

Approvals

Conformity/Approvals

Conformance	CE-compliant

Mounting

Mounting type	DIN rail mounting

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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 ... 6000 MHz)
	IEC 61000-6-2 IEC 61000-4-4 (burst) 2 kV power line, 2 kV data line
	IEC 61000-6-2 IEC 61000-4-5 (surge) power line: 1 kV (line/earth), 0.5 kV (line/line), 1 kV data line
	IEC 61000-6-2 IEC 61000-4-6 (immunity to conducted interference) 10 V (150 kHz ... 80 MHz)
Noise immunity	EN 61000-6-2:2005
Noise emission	EN 61000-6-4

Signaling

Status display	LEDs: US1, FAIL, Link, and Activity

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1357850

cUL Listed	
Approval ID: E238705	

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Classifications

ECLASS

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

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	4,4'-isopropylidenediphenol(CAS: 80-05-7)
	Lead(CAS: 7439-92-1)

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Accessories

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.

SD FLASH 2GB - Program/configuration memory

2988162

https://www.phoenixcontact.com/in/products/2988162

Program and configuration memory, for extending the internal flash memory, pluggable, 2 GB.

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