

Router - FL MGUARD RS2000 TX/TX-B - 2702139

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Router, 10/100 Mbps, NAT

The figure shows the standard item

Your advantages

- Maximum security
- Maximum performance
- Central management tool



Key Commercial Data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 725.000 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 |

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

Router - FL MGUARD RS2000 TX/TX-B - 2702139

Technical data

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 for standard routing, NAT, 1:1-NAT and port forwarding |
| 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 external server |
| Data integrity | MD5, SHA-1, SHA 256, SHA-512 |
| Protection against | IP spoofing |
| 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 |

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Conformity with EMC directives

| | |
|---------------|--|
| 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 2014/30/EU |
| Noise emission | EN 55022 / Class B |
| Noise immunity | EN 61000-6-2:2005 |

Environmental Product Compliance

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

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 19170406 |
| eCl@ss 11.0 | 19170406 |
| eCl@ss 4.0 | 24010500 |
| eCl@ss 4.1 | 24010500 |
| eCl@ss 5.0 | 19030100 |
| 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 4.0 | EC001478 |
| ETIM 5.0 | EC001478 |
| ETIM 6.0 | EC001478 |
| ETIM 7.0 | EC001478 |

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 43222609 |
| UNSPSC 18.0 | 43222609 |

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 19.0 | 43222609 |
| UNSPSC 20.0 | 43222609 |
| UNSPSC 21.0 | 43222609 |

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

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 | | RU*DE*08.B.00731/19 |
|-----|--|---------------------|

| | |
|--------------|--|
| cULus Listed | |
|--------------|--|

Accessories

Accessories

Data plug

Router - FL MGUARD RS2000 TX/TX-B - 2702139

Accessories

Assembly tool - FL CRIMPTOOL - 2744869



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

License

License - FL MGUARD LIC LIFETIME FW - 2700184



License for lifetime software update of FL MGUARD field devices.

Parameterization memory

Program / configuration memory - SD FLASH 2GB - 2988162



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

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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Accessories

Patch cable - FL CAT5 PATCH 1,0 - 2832276



Patch cable, CAT5, assembled, 1 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 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

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Accessories

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 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

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Accessories

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