

Router - FL MGuard RS4004 TX/DTX VPN - 2701877

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Security appliance in metal housing with integrated 4-port Managed Switch and DMZ port, VPN with expanded temperature range, SD card slot, intelligent firewall, router with NAT/1:1-NAT, optional CIFS integrity monitoring or OPC Inspector

Your advantages

- Maximum security
- Maximum performance
- Central management tool

Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 1 pc |
| GTIN | |
| GTIN | 4046356869362 |

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) | -40 °C ... 70 °C |
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |

Interfaces

Router - FL MGUARD RS4004 TX/DTX VPN - 2701877

Technical data

Interfaces

| | |
|----------------------|--|
| Interface | Ethernet |
| No. of ports | 6 (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 |

Function

| | |
|----------------------------------|---|
| Basic functions | Router with intelligent firewall, integrated 4-port managed switch and VPN for 10 tunnels (opt. up to 250 with additional license), CIFS Integrity Monitoring (opt.), metal housing, slot for SD memory card, extended temperature range, high-performance firewall/VPN: up to 124 Mbps / 40 Mbps |
| Management | Web-based management (HTTPS) SNMPv1-v3 (Use of SNMPv3 recommended) |
| Diagnostic functions | SysLog/Remote SysLog SNMP-Traps QoS, ToS/DSCP LLDP (Link Layer Discovery Protocol) |
| Redundancy | Firewall/Router VPN |
| Supported browsers | HTTPS support required |
| Processor | 330 MHz |
| 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 |
| Virtual private network (VPN) throughput | max. 42 Mbps (Router) max. 27 Mbps (Stealth mode, VPN bidirectional throughput) |
| Number of VPN tunnels | 10 (up to 250 tunnels with additional license as an option) |
| Encryption methods | DES, 3DES, AES-128, -192, -256 |
| Internet Protocol Security (IPsec) mode | ESP tunnel / ESP transport |
| Authentication | X.509v3 certificates with RSA or PSK |
| Data integrity | MD5, SHA-1, SHA 256, SHA-512 |
| 1:1 Network Address Translation (NAT) in the VPN | Supported |
| Firewall data throughput | max. 130 Mbps (Router mode, default firewall rules, bidirectional throughput) max. 61 Mbps (Stealth mode, default firewall rules, bidirectional throughput) |

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Security functions

| | |
|--------------------|--|
| Firewall rules | Configurable stateful inspection firewall with full scope of functions |
| 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 |
|---|-------|

Supply voltage

| | |
|-----------------------------|--|
| Supply voltage | 24 V DC (redundant) |
| 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 | 180 mA (unloaded outputs) |

General

| | |
|------------------|-------------|
| Mounting type | DIN rail |
| Type AX | Stand-alone |
| Net weight | 725 g |
| Housing material | Metal |

Standards and Regulations

| | |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Type of test | Free fall in acc. with IEC 60068-2-32 |
| Test result | 1 m |
| Type of test | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 |
| Test result | 5g, 10...150 Hz, 2.5 h, in XYZ direction |
| Type of test | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 |
| Test result | Operation: 15g, 11 ms period, half-sine shock pulse |
| Type of test | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 |
| Test result | Storage: 30g, 11 ms period, half-sine shock pulse |
| Conformance | CE-compliant |

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 | 19170405 |
| eCl@ss 4.0 | 24010500 |

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Classifications

eCl@ss

| | |
|------------|----------|
| 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 6.01 | 20142601 |
| UNSPSC 7.0901 | 20142601 |
| UNSPSC 11 | 20142601 |
| UNSPSC 12.01 | 20142601 |
| UNSPSC 13.2 | 43222609 |
| UNSPSC 18.0 | 43222609 |
| 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 |
|-----------|--|---|---------------|

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Approvals

| | | | |
|------------|--|---|---------------|
| 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

Assembly tool - FL CRIMPTOOL - 2744869



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

Device parameterization

Software - FL MGuard DM UNLIMITED - 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.

License

License - FL MGuard LIC MODBUS INSPECTOR - 2702980



License for activating the Modbus inspector function on an FL/TC MGuard

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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 up to 250 additional VPN online connections

License - FL MGuard LIC VPN-250 - 2700193



License for up to 250 additional VPN online connections

License - FL MGuard LIC VPN-10 - 2700194



License for up to 10 additional VPN online connections

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 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

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Accessories

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

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

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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

Remote control software

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Accessories

License - MGuard SECURE VPN CLIENT LIC - 2702579



License for mGuard Secure VPN Client v11.x

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

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