

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 |  4 046356 869362 |
| GTIN | 4046356869362 |
| Weight per Piece (excluding packing) | 900.000 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

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|--------|--------|
| Width | 45 mm |
| Height | 130 mm |
| Depth | 114 mm |

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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

| | |
|----------------------|--|
| 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) |

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Security functions

| | |
|--|---|
| 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) |
| 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

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| Maximum conductor length (twisted pair) | 100 m |
|---|-------|

Supply voltage

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

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

Standards and Regulations

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

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Standards and Regulations

| | |
|-------------|---|
| Test result | Storage: 30g, 11 ms period, half-sine shock pulse |
| Conformance | CE-compliant |

Environmental Product Compliance

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

Classifications

eCl@ss

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

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

Approvals

Approvals

Router - FL MGUARD RS4004 TX/DTX VPN - 2701877

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

| | | | |
|-----------|--|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|-----------|--|---|---------------|

| | | | |
|------------|--|---|---------------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|------------|--|---|---------------|

| | | | |
|-----|--|--|--------------------------|
| EAC | | | RU *- DE.A*30.B.01735 |
|-----|--|--|--------------------------|

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

Accessories

Accessories

License

License - FL MGUARD LIC FW/VPN RD - 2702193



License for activating the firewall/router and VPN redundancy function on an FL MGUARD device pair

Router - FL MGuard RS4004 TX/DTX VPN - 2701877

Accessories

License - FL MGuard LIC FW RD - 2701356



License for activating the firewall/router redundancy function on an FL MGuard device pair

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-10 - 2700194



License for up to 10 additional VPN online connections

License - FL MGuard LIC VPN-250 - 2700193



License for up to 250 additional VPN online connections

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Accessories

License - FL MGuard LIC OPC INSP - 2702191



License for activating the OPC inspector function on an FL MGuard

License - FL MGuard LIC VPN-100 - 2702546



License for up to 100 additional VPN online connections

Parameterization memory

Memory - SD FLASH 512MB - 2988146



Program and configuration memory, plug-in, 512 Mbyte.

Remote control software

License - MGuard SECURE VPN CLIENT LIC - 2702579



License for mGuard Secure VPN Client v11.x
