

SCALANCE M874-3 3G router; for the wireless IP communication from Ethernet-based Programmable controllers via 3G mobile radio HSPA+, VPN, Firewall, NAT; 2-port switch; 1x digital input, 1x digital output; observe national approvals!



| Transfer rate | |
|---|-----------------------|
| Transfer rate | 10 Mbit/s, 100 Mbit/s |
| Transfer rate | |
| <ul style="list-style-type: none"> • for GPRS transmission / with downlink / maximum | 85.6 kbit/s |
| <ul style="list-style-type: none"> • for GPRS transmission / with uplink / maximum | 85.6 kbit/s |
| <ul style="list-style-type: none"> • with eGPRS transmission / with downlink / maximum | 236.8 kbit/s |
| <ul style="list-style-type: none"> • with eGPRS transmission / with uplink / maximum | 236.8 kbit/s |
| <ul style="list-style-type: none"> • with UMTS transmission / with downlink / maximum | 14.4 Mbit/s |
| <ul style="list-style-type: none"> • with UMTS transmission / with uplink / maximum | 5.76 Mbit/s |
| Interfaces | |
| Number of electrical connections | |
| <ul style="list-style-type: none"> • for internal network | 2 |
| <ul style="list-style-type: none"> • for external network | 1 |
| Number of electrical connections | |

| | |
|--|--|
| <ul style="list-style-type: none"> • for power supply | 2 |
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for internal network • for external network • for power supply | RJ45 port (10/100 Mbit/s, TP, autocrossover) SMA antenna socket (50 ohms) Terminal strip |

Signal inputs/outputs

| | |
|---|----------------------------------|
| Number of electrical connections | |
| <ul style="list-style-type: none"> • for digital input signals • for digital output signals | 1 1 |
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for digital input signals • for digital output signals | Terminal block Terminal block |

WAN connection

| | |
|--|---|
| Type of mobile network / is supported | GSM, UMTS |
| Type of mobile wireless service / is supported | GPRS, eGPRS, HSPA+ |
| Operating frequency / for GSM transmission | 850 MHz, 900 MHz, 1800 MHz, 1900 MHz |
| Operating frequency / with UMTS transmission | 800 MHz, 850 MHz, 900 MHz, 1900 MHz, 2100 MHz |

Supply voltage, current consumption, power loss

| | |
|---|---------------|
| Supply voltage / Rated value | 24 V |
| Supply voltage / rated value | 10.8 ... 28.8 |
| Type of voltage / of the supply voltage | DC |
| Consumed current / at rated supply voltage / maximum | 330 mA |
| Power loss [W] | |
| <ul style="list-style-type: none"> • maximum | 8 W |

Ambient conditions

| | |
|--|----------------------------------|
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage | -20 ... +60 °C -40 ... +85 °C |
| Relative humidity / at 25 °C / during operation / maximum | 95 % |
| Protection class IP | IP20 |

Design, dimensions and weights

| | |
|--|-------------------|
| Design | compact |
| Depth | 127 mm |
| Height | 147 mm |
| Width | 35 mm |
| Mounting type | |
| <ul style="list-style-type: none"> • 35 mm DIN rail mounting • S7-300 rail mounting • S7-1500 rail mounting | Yes Yes Yes |

- wall mounting

Yes

Product features, product functions, product components / general

Product function

- DynDNS client
- no-ip.com client

Yes

Yes

Product functions / management, configuration, engineering

Product function

- CLI
- web-based management
- MIB support
- TRAPs via email

Yes

Yes

Yes

Yes

Protocol / is supported

- Telnet
- HTTP
- HTTPS

Yes

Yes

Yes

Type of configuration

Web-based management

Product functions / Diagnostics

Protocol / is supported

- SNMP v1
- SNMP v2
- SNMP v2c
- SNMP v3

Yes

Yes

Yes

Yes

Product function

- Statistics Packet Size
- Statistics packet type
- Error statistics
- SysLog
- Packet Filter Log

No

No

No

Yes

Yes

Product functions / DHCP

Product function

- DHCP client
- DHCP server - internal network

Yes

Yes

Product functions / Routing

Router function

- NAT (IP masquerading)
- Port forwarding
- NAT traversal
- 1:1 NAT
- DNS cache

Yes

Yes

Yes

Yes

Yes

Product functions / Security

| | |
|--|---|
| Suitability for operation / Virtual Private Network | Yes |
| Firewall version | Statefull Inspection |
| Product function <ul style="list-style-type: none"> • Password protection • packet filter • Broadcast/Multicast/Unicast Limiter | <p>Yes</p> <p>Yes</p> <p>No</p> |
| Product function <ul style="list-style-type: none"> • broadcast blocking • with VPN connection | <p>No</p> <p>IPsec, OpenVPN (as Client)</p> |
| Number of possible connections / with VPN connection | 20 |
| Type of authentication / with Virtual Private Network / PSK | Yes |
| Protocol / is supported <ul style="list-style-type: none"> • IPsec tunnel and transport mode | Yes |
| Key length <ul style="list-style-type: none"> • 1 / with IPsec AES / with Virtual Private Network • 2 / with IPsec AES / with Virtual Private Network • 3 / with IPsec AES / with Virtual Private Network • with IPsec 3DES / with Virtual Private Network | <p>128 bit</p> <p>192 bit</p> <p>256 bit</p> <p>168 bit</p> |
| Type of Internet key exchange / with Virtual Private Network <ul style="list-style-type: none"> • main mode • quick mode | <p>Yes</p> <p>Yes</p> |
| Type of packet authentication / with Virtual Private Network | MD5, SHA-1, SHA-256, SHA-384, SHA-512 |
| IETF profile / with Virtual Private Network / X.509v3 certificate | Yes |

Product functions / time

| | |
|---|-----------------------|
| Protocol / is supported <ul style="list-style-type: none"> • NTP • SNTP | <p>Yes</p> <p>Yes</p> |
|---|-----------------------|

Standards, specifications, approvals

| | |
|--|--|
| Standard <ul style="list-style-type: none"> • for EMC • for FM | <p>ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4</p> <p>FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4</p> |
|--|--|

- for hazardous zone
- for safety / from CSA and UL
- for hazardous zone / from CSA and UL
- for emitted interference
- for interference immunity

EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X
 UL E115352 Vol. X2
 ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC
 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4
 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2

Certificate of suitability

- CE marking

Yes

Further information / Internet-Links

Internet-Link

- to website: Selector for cables and connectors
- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>
<http://www.siemens.com/snst>
<http://www.siemens.com/simatic-net>
<https://mall.industry.siemens.com>
<http://www.siemens.com/industry/infocenter>
<http://automation.siemens.com/bilddb>
<http://www.siemens.com/cax>
<https://support.industry.siemens.com>

Security information

Security information

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