

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

<ul style="list-style-type: none"> <li>• for power supply</li> </ul>	2
Type of electrical connection	
<ul style="list-style-type: none"> <li>• for internal network</li> <li>• for external network</li> <li>• for power supply</li> </ul>	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"> <li>• for digital input signals</li> <li>• for digital output signals</li> </ul>	1 1
Type of electrical connection	
<ul style="list-style-type: none"> <li>• for digital input signals</li> <li>• for digital output signals</li> </ul>	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"> <li>• maximum</li> </ul>	8 W

### Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>	-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"> <li>• 35 mm DIN rail mounting</li> <li>• S7-300 rail mounting</li> <li>• S7-1500 rail mounting</li> </ul>	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"> <li>• Password protection</li> <li>• packet filter</li> <li>• Broadcast/Multicast/Unicast Limiter</li> </ul>	<p>Yes</p> <p>Yes</p> <p>No</p>
Product function <ul style="list-style-type: none"> <li>• broadcast blocking</li> <li>• with VPN connection</li> </ul>	<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"> <li>• IPsec tunnel and transport mode</li> </ul>	Yes
Key length <ul style="list-style-type: none"> <li>• 1 / with IPsec AES / with Virtual Private Network</li> <li>• 2 / with IPsec AES / with Virtual Private Network</li> <li>• 3 / with IPsec AES / with Virtual Private Network</li> <li>• with IPsec 3DES / with Virtual Private Network</li> </ul>	<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"> <li>• main mode</li> <li>• quick mode</li> </ul>	<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"> <li>• NTP</li> <li>• SNTP</li> </ul>	<p>Yes</p> <p>Yes</p>
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## Standards, specifications, approvals

Standard <ul style="list-style-type: none"> <li>• for EMC</li> <li>• for FM</li> </ul>	<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>
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- 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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