

Product type designation

SCALANCE M874-3 3G

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!



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

Signal-Inputs/outputs

Number of electrical connections	1
<ul style="list-style-type: none"> • for digital input signals • for digital output signals 	1
Type of electrical connection	Terminal block
<ul style="list-style-type: none"> • for digital input signals • for digital output signals 	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]	8 W
<ul style="list-style-type: none"> • maximum 	

Permitted ambient conditions

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

Design, dimensions and weight

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

- S7-1500 rail mounting
- wall mounting

Yes
Yes

Product properties, functions, components / general

Product function

- DynDNS-Client
- no-ip.com client

Yes
Yes

Product functions / management, configuration

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 / Diagnosis

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 	Yes
<ul style="list-style-type: none"> • packet filter 	Yes
<ul style="list-style-type: none"> • Broadcast/Multicast/Unicast Limiter 	No
Product function	
<ul style="list-style-type: none"> • broadcast blocking 	No
<ul style="list-style-type: none"> • with VPN connection 	IPsec, OpenVPN (as Client)
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 	128 bit
<ul style="list-style-type: none"> • 2 / with IPsec AES / with Virtual Private Network 	192 bit
<ul style="list-style-type: none"> • 3 / with IPsec AES / with Virtual Private Network 	256 bit
<ul style="list-style-type: none"> • with IPsec 3DES / with Virtual Private Network 	168 bit
Type of Internet key exchange / with Virtual Private Network	
<ul style="list-style-type: none"> • main mode 	Yes
<ul style="list-style-type: none"> • quick mode 	Yes
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 	Yes
<ul style="list-style-type: none"> • SNTP 	Yes

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

- 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

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