

Product type designation

SCALANCE M874-3 3G

SCALANCE M874-3; FOR WIRELESS IP-COMMUNICATION OF ETHERNET- BASED AUTOMATIION DEVICES VIA 3G-MOBILE RADIO HSPA+, VPN, FIREWALL, NAT 2-PORT SWITCH 1X DIG. INPUT, 1X DIG. OUTPUT PLEASE NOTE NATIONAL APPROVALS!



Transmission rate

Transfer rate	10 Mbit/s, 100 Mbit/s
Transfer rate	
• for GPRS transmission / with downlink / maximum	85.6 kbit/s
• for GPRS transmission / with uplink / maximum	85.6 kbit/s
• with eGPRS transmission / with downlink / maximum	236.8 kbit/s
• with eGPRS transmission / with uplink / maximum	236.8 kbit/s
• with UMTS transmission / with downlink / maximum	14.4 Mbit/s
• with UMTS transmission / with uplink / maximum	5.76 Mbit/s

Interfaces

Number of electrical connections	
• for internal network	2
• for external network	1

• for power supply	2
Type of electrical connection	
• for internal network	RJ45 port (10/100 Mbit/s, TP, autocrossover)
• for external network	SMA antenna socket (50 ohms)
• for power supply	Terminal strip

Signal-Inputs/outputs

Number of electrical connections	
• for digital input signals	1
• for digital output signals	1
Type of electrical connection	
• for digital input signals	Terminal block
• 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]	
• maximum	8 W

Permitted ambient conditions

Ambient temperature	
• during operation	-20 ... +60 °C
• 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	
• 35 mm DIN rail mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes

- wall mounting

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	
• Password protection	Yes
• packet filter	Yes
• Broadcast/Multicast/Unicast Limiter	No
Product function	
• broadcast blocking	No
Number of possible connections / with VPN connection	20
Type of authentication / with Virtual Private Network / PSK	Yes
Protocol / is supported	
• IPsec tunnel and transport mode	Yes
Key length	
• 1 / with IPsec AES / with Virtual Private Network	128 bit
• 2 / with IPsec AES / with Virtual Private Network	192 bit
• 3 / with IPsec AES / with Virtual Private Network	256 bit
• with IPsec 3DES / with Virtual Private Network	168 bit
Type of Internet key exchange / with Virtual Private Network	
• main mode	Yes
• 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	
• NTP	Yes
• SNTP	Yes

Standards, specifications, approvals

Standard	
• 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
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X

• for safety / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity	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
MTBF / at 40 °C	56 y

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

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last modified:

10/29/2016