

product type designation



M876-4 LTE (EU)

***** spare part ***** SCALANCE M876-4 4G router; for wireless IP communication from Ethernet-based programmable controllers via LTE (4G) mobile radio optimized for use in Europe, VPN, firewall, NAT; 4-port switch; 2x SMA antennas, MIMO technology; 1x digital input, 1x digital output; observe national approvals.

product brand name

SCALANCE

transfer rate

transfer rate / for Industrial Ethernet 10, 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
• for LTE transmission / with downlink / maximum	100 Mbit/s
• for LTE transmission / with uplink / maximum	50 Mbit/s

interfaces

number of electrical connections

• for internal network	4
• for external network	2

number of electrical connections

• for power supply	2
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type of electrical connection

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

WAN connection

type of wireless network / is supported	LTE, UMTS, GSM
type of mobile wireless service / is supported	GPRS, eGPRS, HSPA+
operating frequency / for GSM transmission	900 MHz, 1800 MHz
operating frequency / with UMTS transmission	900 MHz, 1800 MHz, 2100 MHz
operating frequency / for LTE transmission	800 MHz, 900 MHz, 1800 MHz, 2100 MHz, 2600 MHz

supply voltage, current consumption, power loss

supply voltage / rated value 10.8 ... 28.8

consumed current

• at DC / at 24 V / typical	0.33 A
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power loss [W]

• maximum	8 W
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supply voltage / 1 / rated value

• type of voltage / 1 / of the supply voltage	DC
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ambient conditions

ambient temperature

during operation	-20 ... +70 °C
during storage	-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
net weight	396 g
fastening method	
35 mm DIN-rail mounting	Yes
S7-300 rail mounting	Yes
S7-1500 rail mounting	Yes
wall mounting	Yes
product features, product functions, product components / general	
product function	
DynDNS client	Yes
no-ip.com client	Yes
product functions / management, configuration, engineering	
product function	
CLI	Yes
web-based management	Yes
MIB support	Yes
TRAPs via email	Yes
protocol / is supported	
Telnet	Yes
HTTP	Yes
HTTPS	Yes
type of configuration	Web-based management
product functions / diagnostics	
protocol / is supported	
SNMP v1	Yes
SNMP v2	Yes
SNMP v2c	Yes
SNMP v3	Yes
product function	
statistics Packet Size	No
statistics packet type	No
error statistics	No
SysLog	Yes
packet filter log	Yes
product functions / DHCP	
product function	
DHCP client	Yes
DHCP server - internal network	Yes
product functions / routing	
router function	
NAT (IP masquerading)	Yes
port forwarding	Yes
NAT traversal	Yes
1:1 NAT	Yes
DNS cache	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
• 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	
• 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 hazardous zone	EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X
• for emitted interference	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4
• for interference immunity	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
• CCC approval	Yes; GB3836.1, GB3836.8, Ex nA IIC T4 Gc
• railway application in accordance with EN 50121-3-2	Yes
• railway application in accordance with EN 50121-4	Yes
• railway application in accordance with EN 50155	Yes; no coated printed circuit boards
• railway application in accordance with EN 61373	Yes; cat. 1, cl.A and cl. B
• fire protection in accordance with EN 45545-2	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	279.7784 kg
• during manufacturing	29.3 kg
• during operation	250 kg
• after end of life	0.455 kg
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Mobile radio national approval	https://www.siemens.com/mobile-approvals
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAX-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic,

state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert>. (V4.7)

Approvals / Certificates

General Product Approval			For use in hazardous locations		
 EG-Konf.   China RoHS  ATEX  IECEX					
For use in hazardous locations	Radio Equipment Type Approval Certificate	Railway	Environment	Industrial Communication	
CCC-Ex	Miscellaneous	Confirmation			PROFINET

last modified:

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