

### product type designation



### M876-4 LTE (EU)

SCALANCE M876-4 4G router; for wireless IP communication from Ethernet-based programmable controllers via LTE (4G) mobile radio optimized for usage in Europe, VPN, firewall, NAT; 4-port switch; 2x SMA antennas, MIMO technology; 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
<ul style="list-style-type: none"> <li>for LTE transmission / with downlink / maximum</li> </ul>	100 Mbit/s
<ul style="list-style-type: none"> <li>for LTE transmission / with uplink / maximum</li> </ul>	50 Mbit/s
interfaces	
number of electrical connections	
<ul style="list-style-type: none"> <li>for internal network</li> </ul>	4
<ul style="list-style-type: none"> <li>for external network</li> </ul>	2
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> </ul>	RJ45 port (10/100 Mbit/s, TP, autocrossover)
<ul style="list-style-type: none"> <li>for external antenna(s)</li> </ul>	SMA antenna socket (50 ohms)
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	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	24 V
supply voltage / rated value	10.8 ... 28.8
type of voltage / of the supply voltage	DC
consumed current	
<ul style="list-style-type: none"> <li>at rated supply voltage / maximum</li> </ul>	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> </ul>	-20 ... +70 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +85 °C
relative humidity / at 25 °C / during operation / maximum	95 %
protection class IP	IP20
<b>design, dimensions and weights</b>	
design	compact
depth	127 mm
height	147 mm
width	35 mm
fastening method	
<ul style="list-style-type: none"> <li>35 mm top hat DIN rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>S7-300 rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>S7-1500 rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>wall mounting</li> </ul>	Yes
<b>product features, product functions, product components / general</b>	
product function	
<ul style="list-style-type: none"> <li>DynDNS client</li> </ul>	Yes
<ul style="list-style-type: none"> <li>no-ip.com client</li> </ul>	Yes
<b>product functions / management, configuration, engineering</b>	
product function	
<ul style="list-style-type: none"> <li>CLI</li> </ul>	Yes
<ul style="list-style-type: none"> <li>web-based management</li> </ul>	Yes
<ul style="list-style-type: none"> <li>MIB support</li> </ul>	Yes
<ul style="list-style-type: none"> <li>TRAPs via email</li> </ul>	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>Telnet</li> </ul>	Yes
<ul style="list-style-type: none"> <li>HTTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>HTTPS</li> </ul>	Yes
type of configuration	Web-based management
<b>product functions / diagnostics</b>	
protocol / is supported	
<ul style="list-style-type: none"> <li>SNMP v1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>SNMP v2</li> </ul>	Yes
<ul style="list-style-type: none"> <li>SNMP v2c</li> </ul>	Yes
<ul style="list-style-type: none"> <li>SNMP v3</li> </ul>	Yes
product function	
<ul style="list-style-type: none"> <li>statistics Packet Size</li> </ul>	No
<ul style="list-style-type: none"> <li>statistics packet type</li> </ul>	No
<ul style="list-style-type: none"> <li>error statistics</li> </ul>	No
<ul style="list-style-type: none"> <li>SysLog</li> </ul>	Yes
<ul style="list-style-type: none"> <li>packet filter log</li> </ul>	Yes
<b>product functions / DHCP</b>	
product function	
<ul style="list-style-type: none"> <li>DHCP client</li> </ul>	Yes
<ul style="list-style-type: none"> <li>DHCP server - internal network</li> </ul>	Yes
<b>product functions / routing</b>	
router function	
<ul style="list-style-type: none"> <li>NAT (IP masquerading)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>port forwarding</li> </ul>	Yes
<ul style="list-style-type: none"> <li>NAT traversal</li> </ul>	Yes
<ul style="list-style-type: none"> <li>1:1 NAT</li> </ul>	Yes
<ul style="list-style-type: none"> <li>DNS cache</li> </ul>	Yes
<b>product functions / security</b>	
suitability for operation / Virtual Private Network	Yes
firewall version	Statefull Inspection
product function	
<ul style="list-style-type: none"> <li>password protection</li> </ul>	Yes
<ul style="list-style-type: none"> <li>packet filter</li> </ul>	Yes
<ul style="list-style-type: none"> <li>broadcast/multicast/unicast limiter</li> </ul>	No

product function	
<ul style="list-style-type: none"> <li>• broadcast blocking</li> <li>• with VPN connection</li> </ul>	No IPsec, OpenVPN (as Client)
number of possible connections / with VPN connection	20
type of authentication / with Virtual Private Network / PSK protocol / is supported	Yes
<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>	128 bit 192 bit 256 bit 168 bit
type of Internet key exchange / with Virtual Private Network	
<ul style="list-style-type: none"> <li>• main mode</li> <li>• quick mode</li> </ul>	Yes 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
<b>product functions / time</b>	
protocol / is supported	
<ul style="list-style-type: none"> <li>• NTP</li> <li>• SNTP</li> </ul>	Yes Yes
<b>standards, specifications, approvals</b>	
standard	
<ul style="list-style-type: none"> <li>• for EMC</li> <li>• for hazardous zone</li> <li>• for emitted interference</li> <li>• for interference immunity</li> </ul>	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X 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	
<ul style="list-style-type: none"> <li>• CE marking</li> <li>• CCC approval</li> <li>• railway application in accordance with EN 50121-3-2</li> <li>• railway application in accordance with EN 50121-4</li> <li>• railway application in accordance with EN 50155</li> <li>• railway application in accordance with EN 61373</li> <li>• fire protection in accordance with EN 45545-2</li> </ul>	Yes Yes Yes Yes Yes; no coated printed circuit boards Yes; cat. 1, cl.A and cl. B Yes
<b>further information / internet-Links</b>	
Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Selection guide for cables and connectors</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit

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<http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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