

### product type designation



### M874-2 2.5G

SCALANCE M874-2 2G router; for wireless IP communication from Ethernet-based automation devices via 2G mobile radio 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
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> </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	GSM
type of mobile wireless service / is supported	GPRS, eGPRS
operating frequency / for GSM transmission	850 MHz, 900 MHz, 1800 MHz, 1900 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 DC / at 24 V / typical</li> </ul>	0.33 A
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 ... +60 °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
design, dimensions and weights	
design	compact
depth	127 mm
height	147 mm

width	35 mm
net weight	379 g
fastening method	
• 35 mm top hat DIN rail mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
• wall mounting	Yes
<b>product features, product functions, product components / general</b>	
product function	
• DynDNS client	Yes
• no-ip.com client	Yes
<b>product functions / management, configuration, engineering</b>	
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
<b>product functions / diagnostics</b>	
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
<b>product functions / DHCP</b>	
product function	
• DHCP client	Yes
• DHCP server - internal network	Yes
<b>product functions / routing</b>	
router function	
• NAT (IP masquerading)	Yes
• port forwarding	Yes
• NAT traversal	Yes
• 1:1 NAT	Yes
• DNS cache	Yes
<b>product functions / security</b>	
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	

<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>
<p>type of Internet key exchange / with Virtual Private Network</p> <ul style="list-style-type: none"> <li>• main mode</li> <li>• quick mode</li> </ul>	<p>Yes</p> <p>Yes</p>
<p>type of packet authentication / with Virtual Private Network</p>	<p>MD5, SHA-1, SHA-256, SHA-384, SHA-512</p>
<p>IETF profile / with Virtual Private Network / X.509v3 certificate</p>	<p>Yes</p>
<p><b>product functions / time</b></p>	
<p>protocol / is supported</p> <ul style="list-style-type: none"> <li>• NTP</li> <li>• SNMP</li> </ul>	<p>Yes</p> <p>Yes</p>
<p><b>standards, specifications, approvals</b></p>	
<p>standard</p> <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>	<p>ETSI EN 301 489-1, ETSI EN 301 489-7, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4</p> <p>EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X</p> <p>ETSI EN 301 489-1, ETSI EN 301 489-7, EN 61000-6-4</p> <p>ETSI EN 301 489-1, ETSI EN 301 489-7, EN 61000-6-2</p>
<p>certificate of suitability</p> <ul style="list-style-type: none"> <li>• CE marking</li> <li>• CCC approval</li> </ul>	<p>Yes</p> <p>Yes</p>
<p><b>further information / internet-Links</b></p>	
<p>Internet-Link</p> <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>	<p><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>
<p><b>security information</b></p>	
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