

### Product type designation

### SCALANCE M874-2 2.5G

SCALANCE M874-2 2.5G router; for wireless IP communication from Ethernet- based automation devices via 2.5G mobile radio 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"> <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)

- for external network
- for power supply

SMA antenna socket (50 ohms)

Terminal strip

## Signal-Inputs/outputs

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

## WAN connection

Type of mobile 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 / at rated supply voltage / maximum	330 mA
Power loss [W]	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	8 W

## Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>	-20 ... +60 °C -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	
<ul style="list-style-type: none"> <li>• 35 mm DIN rail mounting</li> <li>• S7-300 rail mounting</li> <li>• S7-1500 rail mounting</li> <li>• wall mounting</li> </ul>	Yes Yes Yes Yes

## Product properties, functions, components / general

Product function	
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- DynDNS-Client Yes
- no-ip.com client Yes

### Product functions / management, configuration

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 / Diagnosis

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	

<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> </ul>	No
<ul style="list-style-type: none"> <li>• with VPN connection</li> </ul>	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"> <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> </ul>	128 bit
<ul style="list-style-type: none"> <li>• 2 / with IPsec AES / with Virtual Private Network</li> </ul>	192 bit
<ul style="list-style-type: none"> <li>• 3 / with IPsec AES / with Virtual Private Network</li> </ul>	256 bit
<ul style="list-style-type: none"> <li>• with IPsec 3DES / with Virtual Private Network</li> </ul>	168 bit
Type of Internet key exchange / with Virtual Private Network	
<ul style="list-style-type: none"> <li>• main mode</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• quick mode</li> </ul>	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"> <li>• NTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNTP</li> </ul>	Yes

### Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> <li>• for EMC</li> </ul>	ETSI EN 301 489-1, ETSI EN 301 489-7, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
<ul style="list-style-type: none"> <li>• for hazardous zone</li> </ul>	EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X
<ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>	ETSI EN 301 489-1, ETSI EN 301 489-7, EN 61000-6-4
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	ETSI EN 301 489-1, ETSI EN 301 489-7, EN 61000-6-2
Certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes

### Further Information / Internet Links

<p>Internet-Link</p> <ul style="list-style-type: none"> <li>• to website: Selector for cables and connectors</li> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</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/snst">http://www.siemens.com/snst</a></p> <p><a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a></p> <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://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>
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**Security information**

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