



SCALANCE MUM853-1 5G router (EU), IP30, for wireless IP communication of Ethernet-based applications via public 3/4/5G mobile radio networks and private 5G networks, VPN, firewall, NAT, IPv6, connection to SINEMA RC via CLP, 4 SMA connections, 1x micro SIM slot, eSIM, 4x10/100/1000 Mbps RJ45 port, redundant DC 24 V, -30... +60 °C, CLP slot, 1x DI and 1x DO, observe national approvals: [siemens.com/mobile-approvals](http://siemens.com/mobile-approvals)

transfer rate	
transfer rate / for Industrial Ethernet	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
transfer rate	
<ul style="list-style-type: none"> <li>with UMTS transmission / with downlink / maximum</li> </ul>	42 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>	1000 Mbit/s
<ul style="list-style-type: none"> <li>for LTE transmission / with uplink / maximum</li> </ul>	200 Mbit/s
<ul style="list-style-type: none"> <li>for 5G transmission / with downlink / maximum</li> </ul>	1000 Mbit/s
<ul style="list-style-type: none"> <li>for 5G transmission / with uplink / maximum</li> </ul>	500 Mbit/s
interfaces	
number of electrical/optical connections / for network components or terminal equipment / maximum	4
number of electrical/optical connections / for gigabit Ethernet / maximum	4
number of electrical connections	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	4
number of electrical connections	
<ul style="list-style-type: none"> <li>for external antenna(s)</li> <li>for power supply</li> <li>for redundant voltage supply</li> </ul>	4 1 1
type of electrical connection	
<ul style="list-style-type: none"> <li>for internal network</li> <li>for external antenna(s)</li> <li>for power supply</li> </ul>	RJ45 port (10/100/1000 Mbps, TP, auto-crossover) SMA antenna socket (50 ohms) 5-pole terminal strip
memory	
number of slots / for Micro-SIM card	1
design of the removable storage / CLP	Yes
signal inputs/outputs	
number of digital inputs	1
number of digital outputs	1
type of electrical connection / at the digital inputs/outputs	terminal block
input voltage / at digital input / at DC	-30 ... +30 V
output voltage / at digital output / at DC / maximum	24 V; 0,5 A
operational current / of the signaling contacts / at DC / at 30 V / maximum	0.008 A
WAN connection	
type of wireless network / is supported	5G public networks, 5G private networks, LTE, UMTS
type of mobile wireless service / is supported	HSDPA, HSUPA, HSPA+
frequency band / is supported	
<ul style="list-style-type: none"> <li>5G Standalone (SA)</li> </ul>	n1, n3, n5, n7, n8, n12, n20, n28, n38, n40, n41, n48, n71, n77, n78, n79
<ul style="list-style-type: none"> <li>5G Non-Standalone (NSA)</li> </ul>	n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n48, n66, n77, n78, n79

- LTE

B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66, B71, B34, B38, B39, B40, B41, B42, B43, B46, B48  
B1, B2, B3, B4, B5, B8

- UMTS

#### supply voltage, current consumption, power loss

consumed current	
<ul style="list-style-type: none"> <li>• at DC / at 24 V</li> </ul>	0.55 A
<ul style="list-style-type: none"> <li>• at DC / at 24 V / sleep mode / maximum</li> </ul>	0.013 A
<b>supply voltage / 1 / rated value</b>	24 V
<ul style="list-style-type: none"> <li>• type of voltage</li> </ul>	redundant power supply, 24 V DC
<ul style="list-style-type: none"> <li>• type of voltage / 1 / of the supply voltage</li> </ul>	DC
<b>supply voltage / 2 / rated value</b>	24 V
<ul style="list-style-type: none"> <li>• type of voltage / 2 / of the supply voltage</li> </ul>	DC

#### ambient conditions

ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-30 ... +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	IP30

#### design, dimensions and weights

design	compact
depth	137 mm
height	157 mm
width	35 mm
net weight	680 g
fastening method	
<ul style="list-style-type: none"> <li>• 35 mm 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

#### product features, product functions, product components / general

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

#### product functions / management, configuration, engineering

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
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022

#### product functions / diagnostics

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

#### product functions / DHCP

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

**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
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firewall version	Statefull Inspection
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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
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type of authentication / with Virtual Private Network / PSK	Yes
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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
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IETF profile / with Virtual Private Network / X.509v3 certificate	Yes
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**product functions / time**

protocol / is supported	
• NTP	Yes
• SNTP	Yes

**standards, specifications, approvals**

standard	
• for EMC	ETSI EN 301 489-1, ETSI EN 301 489-19, ETSI EN 301 489-52, EN 55011, NAMUR NE21
• for emitted interference	CISPR 32, ETSI EN 55032 Class A / Class B, EN IEC 61000-6-3, EN IEC 61000-6-4
• for interference immunity	CISPR 35, EN 55035, EN IEC 61000-6-1, EN IEC 61000-6-2

certificate of suitability	
• EC Declaration of Conformity	Yes
• CE marking	Yes

reference code	
• according to IEC 81346-2:2019	KED

**standards, specifications, approvals / Environmental Product Declaration**

Environmental Product Declaration	Yes
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global warming potential [CO2 eq]	
• total	390.86 kg
• during manufacturing	29.7 kg
• during operation	361 kg
• after end of life	0.16 kg

**further information / internet links**

internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Mobile radio national approval	<a href="https://www.siemens.com/mobile-approvals">https://www.siemens.com/mobile-approvals</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>

- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://www.automation.siemens.com/bilddb>

<https://www.siemens.com/cax>

<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](http://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

Radio Equipment  
Type Approval Certificate

Environment



[Miscellaneous](#)



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