



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, 4x10/100/1000 Mbps RJ45 port, redundant DC 24 V, -30... +60 °C, CLP slot, 1x DI and 1x DO, observe national approvals!

transfer rate	
transfer rate	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 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> </ul>	4
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	1
<ul style="list-style-type: none"> <li>for redundant voltage supply</li> </ul>	1
type of electrical connection	
<ul style="list-style-type: none"> <li>for internal network</li> </ul>	RJ45 port (10/100/1000 Mbps, TP, auto-crossover)
<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>	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
signal range	
<ul style="list-style-type: none"> <li>at digital input</li> </ul>	DC, -30 V ... 30 V
<ul style="list-style-type: none"> <li>at digital output</li> </ul>	DC 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
<ul style="list-style-type: none"> <li>LTE</li> </ul>	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

type of voltage / of the supply voltage	redundant power supply, 24 V DC
consumed current	
<ul style="list-style-type: none"> <li>• at DC / at 24 V / typical</li> </ul>	0.35 A
<b>supply voltage / 1 / rated value</b>	24 V
<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 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

#### 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 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	
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<ul style="list-style-type: none"> <li>• NAT (IP masquerading)</li> <li>• port forwarding</li> <li>• NAT traversal</li> <li>• 1:1 NAT</li> <li>• DNS cache</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<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> <li>• packet filter</li> <li>• broadcast/multicast/unicast limiter</li> </ul>	<p>Yes</p> <p>Yes</p> <p>No</p>
product function <ul style="list-style-type: none"> <li>• broadcast blocking</li> <li>• with VPN connection</li> </ul>	<p>No</p> <p>IPsec, OpenVPN (as Client)</p>
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> <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>
type of Internet key exchange / with Virtual Private Network <ul style="list-style-type: none"> <li>• main mode</li> <li>• quick mode</li> </ul>	<p>Yes</p> <p>Yes</p>
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>	<p>Yes</p> <p>Yes</p>
<b>standards, specifications, approvals</b>	
standard <ul style="list-style-type: none"> <li>• for EMC</li> <li>• for emitted interference</li> <li>• for interference immunity</li> </ul>	<p>ETSI EN 301 489-1, ETSI EN 301 489-19, ETSI EN 301 489-52, EN 55011, NAMUR NE21</p> <p>CISPR 32, ETSI EN 55032 Class A / Class B, EN IEC 61000-6-3, EN IEC 61000-6-4</p> <p>CISPR 35, EN 55035, EN IEC 61000-6-1, EN IEC 61000-6-2</p>
certificate of suitability <ul style="list-style-type: none"> <li>• EC Declaration of Conformity</li> <li>• CE marking</li> </ul>	<p>Yes</p> <p>Yes</p>
<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>	<p><a href="http://www.siemens.com/industrial-5g">http://www.siemens.com/industrial-5g</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/tia-selection-tool">http://www.siemens.com/tia-selection-tool</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>
<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 <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a> . To stay informed about product

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