



SCALANCE MUM853-1 (A1) 5G router, IP30, for wireless IP communication from 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](https://www.siemens.com/mobile-approvals) CERT ID: MS5G16R-30-M1-RJ-E4-1

Technical Product Detail Page

<https://i.siemens.com/1P6GK5853-2EA10-2AA1>

transfer rate

transfer rate / for Industrial Ethernet	10, 100, 1000 Mbit/s
transfer rate	
<ul style="list-style-type: none"> with UMTS transmission / with downlink / maximum 	42 Mbit/s
<ul style="list-style-type: none"> with UMTS transmission / with uplink / maximum 	5.76 Mbit/s
<ul style="list-style-type: none"> for LTE transmission / with downlink / maximum 	1000 Mbit/s
<ul style="list-style-type: none"> for LTE transmission / with uplink / maximum 	200 Mbit/s
<ul style="list-style-type: none"> for 5G transmission / with downlink / maximum 	1000 Mbit/s
<ul style="list-style-type: none"> for 5G transmission / with uplink / maximum 	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"> for network components or terminal equipment 	4
number of electrical connections	
<ul style="list-style-type: none"> for external antenna(s) 	4
<ul style="list-style-type: none"> for power supply 	1
<ul style="list-style-type: none"> for redundant voltage supply 	1
type of electrical connection	
<ul style="list-style-type: none"> for internal network 	RJ45 port (10/100/1000 Mbps, TP, auto-crossover)
<ul style="list-style-type: none"> for external antenna(s) 	SMA antenna socket (50 ohms)
<ul style="list-style-type: none"> for power supply 	5-pole terminal strip

memory

number of slots / for Micro-SIM card	1
product component / eSIM integrated	Yes
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"> • 5G Standalone (SA) 	n1, n2, n3, n5, n7, n8, n20, n25, n28, n30, n38, n40, n41, n48, n66, n71, n75(DL), n77, n78, n79
<ul style="list-style-type: none"> • 5G Non-Standalone (NSA) 	n1, n2, n3, n5, n7, n8, n20, n25, n28, n30, n38, n40, n41, n66, n71, n77, n78, n79
<ul style="list-style-type: none"> • LTE 	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29(DL), B30, B32(DL), B34, B38, B39, B40, B41, B42, B43, B46(DL), B48, B66, B71
<ul style="list-style-type: none"> • UMTS 	B1, B2, B4, B5, B6, B8, B19

supply voltage, current consumption, power loss

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

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> • during operation 	-30 ... +60 °C
<ul style="list-style-type: none"> • during storage 	-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"> • 35 mm DIN-rail mounting 	Yes
<ul style="list-style-type: none"> • S7-300 rail mounting 	Yes
<ul style="list-style-type: none"> • S7-1500 rail mounting 	Yes
<ul style="list-style-type: none"> • wall mounting 	Yes

product features, product functions, product components / general

product function	
<ul style="list-style-type: none"> • DynDNS client 	Yes
<ul style="list-style-type: none"> • no-ip.com client 	Yes

product functions / management, configuration, engineering

product function	
<ul style="list-style-type: none"> • CLI 	Yes
<ul style="list-style-type: none"> • web-based management 	Yes
<ul style="list-style-type: none"> • MIB support 	Yes
<ul style="list-style-type: none"> • TRAPs via email 	Yes
protocol / is supported	
<ul style="list-style-type: none"> • Telnet 	Yes
<ul style="list-style-type: none"> • HTTP 	Yes
<ul style="list-style-type: none"> • HTTPS 	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"> • SNMP v1 	Yes
<ul style="list-style-type: none"> • SNMP v2 	Yes
<ul style="list-style-type: none"> • SNMP v2c 	Yes
<ul style="list-style-type: none"> • SNMP v3 	Yes
product function	
<ul style="list-style-type: none"> • statistics Packet Size 	No
<ul style="list-style-type: none"> • statistics packet type 	No

<ul style="list-style-type: none"> • error statistics 	No
<ul style="list-style-type: none"> • SysLog 	Yes
<ul style="list-style-type: none"> • packet filter log 	Yes
product functions / DHCP	
product function	
<ul style="list-style-type: none"> • DHCP client 	Yes
<ul style="list-style-type: none"> • DHCP server - internal network 	Yes
product functions / routing	
router function	
<ul style="list-style-type: none"> • NAT (IP masquerading) 	Yes
<ul style="list-style-type: none"> • port forwarding 	Yes
<ul style="list-style-type: none"> • NAT traversal 	Yes
<ul style="list-style-type: none"> • 1:1 NAT 	Yes
<ul style="list-style-type: none"> • 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"> • password protection 	Yes
<ul style="list-style-type: none"> • packet filter 	Yes
<ul style="list-style-type: none"> • broadcast/multicast/unicast limiter 	No
product function	
<ul style="list-style-type: none"> • broadcast blocking 	No
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • IPsec tunnel and transport mode 	Yes
key length	
<ul style="list-style-type: none"> • 1 / with IPsec AES / with Virtual Private Network 	128 bit
<ul style="list-style-type: none"> • 2 / with IPsec AES / with Virtual Private Network 	192 bit
<ul style="list-style-type: none"> • 3 / with IPsec AES / with Virtual Private Network 	256 bit
<ul style="list-style-type: none"> • with IPsec 3DES / with Virtual Private Network 	168 bit
type of Internet key exchange / with Virtual Private Network	
<ul style="list-style-type: none"> • main mode 	Yes
<ul style="list-style-type: none"> • quick mode 	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"> • NTP 	Yes
<ul style="list-style-type: none"> • SNTP 	Yes
standards, specifications, approvals	
standard	
<ul style="list-style-type: none"> • for EMC 	ETSI EN 301 489-1, ETSI EN 301 489-19, ETSI EN 301 489-52, EN 55011, NAMUR NE21
<ul style="list-style-type: none"> • for emitted interference 	CISPR 32, ETSI EN 55032 Class A / Class B, EN IEC 61000-6-3, EN IEC 61000-6-4
<ul style="list-style-type: none"> • for interference immunity 	CISPR 35, EN 55035, EN IEC 61000-6-1, EN IEC 61000-6-2
certificate of suitability	
<ul style="list-style-type: none"> • EC Declaration of Conformity 	Yes
<ul style="list-style-type: none"> • CE marking 	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total 	390.86 kg
<ul style="list-style-type: none"> • during manufacturing 	29.7 kg
<ul style="list-style-type: none"> • during operation 	361 kg
<ul style="list-style-type: none"> • after end of life 	0.16 kg

further information / internet links

internet link

- to website: Selection guide for cables and connectors
- to web page: selection aid TIA Selection Tool
- to website: Mobile radio national approval
- to website: Industrial communication
- to web page: SiePortal
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

- <https://support.industry.siemens.com/cs/ww/en/view/109766358>
- <https://www.siemens.com/tstcloud>
- <https://www.siemens.com/mobile-approvals>
- <https://www.siemens.com/simatic-net>
- <https://sieportal.siemens.com/>
- <https://www.automation.siemens.com/bilddb>
- <https://www.siemens.com/cax>
- <https://support.industry.siemens.com>

security information

security information

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Approvals / Certificates

General Product Approval



[Type Examination Certificate](#)

[China RoHS](#)

General Product Approval

For use in hazardous locations

Radio Equipment Type Approval Certificate

Environment



[FM](#)

[Miscellaneous](#)

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