SIEMENS

Data sheet

6GK5853-2EA10-2AA1



SCALANCE MUM853-1 (A1) 5G router, rel. 16, 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!

transfer rate	
transfer rate / for Industrial Ethernet	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
transfer rate	
 with UMTS transmission / with downlink / maximum 	42 Mbit/s
 with UMTS transmission / with uplink / maximum 	5.76 Mbit/s
 for LTE transmission / with downlink / maximum 	1000 Mbit/s
 for LTE transmission / with uplink / maximum 	200 Mbit/s
 for 5G transmission / with downlink / maximum 	1000 Mbit/s
 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	
 for network components or terminal equipment 	4
number of electrical connections	
 for external antenna(s) 	4
 for power supply 	1
 for redundant voltage supply 	1
type of electrical connection	
 for internal network 	RJ45 port (10/100/1000 Mbps, TP, auto-crossover)
 for external antenna(s) 	SMA antenna socket (50 ohms)
• 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	
• 5G Standalone (SA)	n1, n2, n3, n5, n7, n8, n20, n25, n28, n30, n38, n40, n41, n48, n66, n71,

	n75(DL), n77, n78, n79
• 5G Non-Standalone (NSA)	n1, n2, n3, n5, n7, n8, n20, n25, n28, n30, n38, n40, n41, n66, n71, n77, n78, n79
● 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
• UMTS	B1, B2, B4, B5, B6, B8, B19
supply voltage, current consumption, power loss	
consumed current	
• at DC / at 24 V	0.55 A
 at DC / at 24 V / sleep mode / maximum 	0.013 A
supply voltage / 1 / rated value	24 V
• type of voltage	redundant power supply, 24 V DC
 type of voltage / 1 / of the supply voltage 	DC
supply voltage / 2 / rated value	24 V
 type of voltage / 2 / of the supply voltage 	DC
ambient conditions	
ambient temperature	
 during operation 	-30 +60 °C
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	
 35 mm top hat DIN rail mounting 	Yes
 S7-300 rail mounting 	Yes
 S7-1500 rail mounting 	Yes
wall mounting	Yes
product features, product functions, product components / gene	eral
product function	
DynDNS client	Yes
no-ip.com client	Yes
product functions / management, configuration, engineering	
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 function / is supported / identification link	Yes; according to IEC 61406-1:2022
product functions / diagnostics	
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
	Stateruli inspection
product function	Vee
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	
 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
IETF profile / with Virtual Private Network / X.509v3 certificate	Yes
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 D	eclaration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	445.68 kg
 during manufacturing 	32.3 kg
during operation	413.22 kg
after end of life	0.16 kg
further information / internet links	
internet link	
 to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358

 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
 to website: Mobile radio national approval 	https://www.siemens.com/mobile-approvals
• to website: Industrial communication	https://www.siemens.com/simatic-net
 to web page: SiePortal 	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
 to website: CAx-Download-Manager 	https://www.siemens.com/cax
 to website: Industry Online Support 	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. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that 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)
General Product Approval	Radio Equipment Type Approval Certi- Environment ficate
	Miscellaneous RCM

last modified:

11/19/2024 🖸