

product type designation



MUM856-1 (CN)

SCALANCE MUM856-1 5G router (CN), IP65, 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 N-Connect connections, 1x micro SIM slot, 1x10/100/1000 Mbit/s M12 socket, redundant DC 24 V, M12 L-coded, PoE, -30... +60 °C, CLP slot, 1x DI and 1x DO, A-coded, 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 gigabit Ethernet / maximum	1
number of electrical connections	
• for network components or terminal equipment	1
number of electrical connections	
• for external antenna(s)	4
• for power supply	1
• for redundant voltage supply	1
type of electrical connection	
• for network components or terminal equipment	M12 (8-pin, X-coded), PoE
• for external antenna(s)	N-Connect (socket)
• for redundant voltage supply	M12 (4-pin, L-coded)

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	M12 (4-pin, A-coded)
signal range	
• at digital input	DC, -30 V ... 30 V
• at digital output	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	
• 5G Standalone (SA)	n1, n2, n3, n5, n7, n8, n12, n20, n28, n38, n40, n41, n48, n66, n71, n77, n78

• 5G Non-Standalone (NSA) • LTE • UMTS	n79 n41, n77, n78, n79 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
supply voltage, current consumption, power loss	
supply voltage / from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af	48 V
type of voltage / of the supply voltage	redundant supply, DC, 24V, M12, L-coded
consumed current	
• at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	0.55 A 0.27 A
power loss [W]	
• at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	13.2 W 12.96 W
supply voltage / 1 / rated value	24 V
• 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
supply voltage / 3 / rated value	48 V
• type of voltage / 3 / of the supply voltage	DC, PoE
ambient conditions	
ambient temperature	
• during operation • during storage	-30 ... +60 °C -40 ... +85 °C
relative humidity / at 25 °C / during operation / maximum	95 %
protection class IP	IP65
design, dimensions and weights	
depth	45 mm
height	179 mm
width	166 mm
net weight	1100 g
fastening method	Wall mounting, mounting on a DIN rail with a separate mounting adapter
• 35 mm top hat DIN rail mounting • wall mounting	Yes Yes
product features, product functions, product components / general	
product function	
• DynDNS client • no-ip.com client	Yes Yes
product functions / management, configuration, engineering	
product function	
• CLI • web-based management • MIB support • TRAPs via email	Yes Yes Yes Yes
protocol / is supported	
• Telnet • HTTP • HTTPS	Yes Yes Yes
type of configuration	Web-based management
product functions / diagnostics	
protocol / is supported	
• SNMP v1 • SNMP v2 • SNMP v2c • SNMP v3	Yes Yes Yes Yes
product function	
• statistics Packet Size • statistics packet type • error statistics	No No 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	
• 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	
certificate of suitability	
• SRRC approval	Yes; SRRC-ID: 2022CJ8492
• NAL approval	Yes; NAL-ID: 00-7730-228990
• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	Yes
further information / internet links	
internet link	
• to website: Industrial communication	http://www.siemens.com/industrial-5g
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Selection guide for cables and connectors	http://www.siemens.com/tia-selection-tool
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAX-Download-Manager	http://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 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

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last modified:

5/9/2023 