

product type designation



MUM856-1 (EU)

SCALANCE MUM856-1 (EU) 5G- router, IP65, for wireless IP communication of Ethernet-based applications via public 3/4/5G mobile radio networks and private 5G networks, optimized for use in Europe, VPN, firewall, NAT, IPv6, connection to SINEMA RC via CLP, 4 N- Connect connections, 1x micro SIM slot, 1x10/100/1000 Mbps 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	10 Mbit/s, 100 Mbit/s, 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 gigabit Ethernet / maximum	1
number of electrical connections	
<ul style="list-style-type: none"> for network components or terminal equipment 	1
number of electrical connections	
<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 network components or terminal equipment 	M12 (8-pin, X-coded), PoE
<ul style="list-style-type: none"> for redundant voltage supply 	M12 (4-pin, L-coded)
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	M12 (4-pin, A-coded)
signal range	
<ul style="list-style-type: none"> at digital input 	DC, -30 V ... 30 V
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 5G Standalone (SA) 	n1, n2, n3, n5, n7, n8, n12, n20, n28, n38, n40, n41, n48, n66, n71, n77, n78, n79
<ul style="list-style-type: none"> 5G Non-Standalone (NSA) 	n1, n3, n7, n20, n28, n38, n41, 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, B30, B32, B66, B71, B34, B38, B39, B40, B41, B42, B43, B46, B48
<ul style="list-style-type: none"> • UMTS 	B1, B2, B3, B4, B5, B8
supply voltage, current consumption, power loss	
supply voltage / from Power-over-Ethernet acc. 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	
<ul style="list-style-type: none"> • at DC / at 24 V / typical 	0.55 A
<ul style="list-style-type: none"> • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	0.27 A
power loss [W]	
<ul style="list-style-type: none"> • at DC / at 24 V / typical 	13.2 W
<ul style="list-style-type: none"> • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	12.96 W
supply voltage / 1 / rated value	24 V
<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
supply voltage / 3 / rated value	48 V
<ul style="list-style-type: none"> • type of voltage / 3 / of the supply voltage 	DC, PoE
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	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
<ul style="list-style-type: none"> • 35 mm top hat DIN 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 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	
certificate of suitability	
<ul style="list-style-type: none"> • EC Declaration of Conformity 	Yes
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	Yes
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/industrial-5g
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors 	http://www.siemens.com/tia-selection-tool
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx-Download-Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com

security information

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