SIEMENS

Data sheet

6GK5876-4AA00-2BA2

product type designation



M876-4 LTE (EU)

SCALANCE M876-4 4G router; for the wireless IP communication from Ethernet-based Programmable controllers via LTE (4G) mobile radio optimized for use in Europe, VPN, Firewall, NAT; 4-port switch; 2x SMA antennas, MIMO Technology; 1x digital input, 1x digital output; observe national approvals!

transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
transfer rate	
for GPRS transmission / with downlink / maximum	85.6 kbit/s
 for GPRS transmission / with uplink / maximum 	85.6 kbit/s
with eGPRS transmission / with downlink / maximum	236.8 kbit/s
with eGPRS transmission / with uplink / maximum	236.8 kbit/s
with UMTS transmission / with downlink / maximum	14.4 Mbit/s
with UMTS transmission / with uplink / maximum	5.76 Mbit/s
for LTE transmission / with downlink / maximum	100 Mbit/s
for LTE transmission / with uplink / maximum	50 Mbit/s
interfaces	
number of electrical connections	
 for internal network 	4
for external network	2
number of electrical connections	
for power supply	2
type of electrical connection	
 for internal network 	RJ45 port (10/100 Mbit/s, TP, autocrossover)
 for external network 	SMA antenna socket (50 ohms)
for power supply	Terminal strip
signal inputs/outputs	
number of electrical connections	
 for digital input signals 	1
for digital output signals	1
type of electrical connection	
 for digital input signals 	Terminal block
 for digital output signals 	Terminal block
WAN connection	
type of wireless network / is supported	GSM, UMTS, LTE
type of mobile wireless service / is supported	GPRS, eGPRS, HSPA+
operating frequency / for GSM transmission	900 MHz, 1800 MHz
operating frequency / with UMTS transmission	900 MHz, 1800 MHz, 2100 MHz
operating frequency / for LTE transmission	800 MHz, 900 MHz, 1800 MHz, 2100 MHz, 2600 MHz
supply voltage, current consumption, power loss	

supply voltage / rated value	24 V
supply voltage / rated value	10.8 28.8
type of voltage / of the supply voltage	DC
consumed current / at rated supply voltage / maximum	330 mA
power loss [W]	
maximum	8 W
ambient conditions	
ambient temperature	
 during operation 	-20 +70 °C
during storage	-40 +85 °C
relative humidity / at 25 °C / during operation / maximum	95 %
protection class IP	IP20
design, dimensions and weights	
design	compact
depth	127 mm
height	147 mm
width	35 mm
fastening method	00 111111
35 mm top hat DIN rail mounting	Yes
S7-300 rail mounting	Yes
-	
S7-1500 rail mounting wall mounting	Yes
wall mounting	Yes
product features, product functions, product components	/ general
product function	
 DynDNS client 	Yes
no-ip.com client	Yes
product functions / management, configuration, engineeri	ng
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 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 Size statistics packet type	No
error statistics	No
• SysLog	Yes
systogpacket filter log	Yes
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product functions / DHCP	
product function	V
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	
♥ SINTE	Yes
	res
standards, specifications, approvals	Yes
standards, specifications, approvals	
standards, specifications, approvals	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4
standards, specifications, approvals	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN
standards, specifications, approvals standard • for EMC	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN
standards, specifications, approvals standard • for EMC • for hazardous zone • for emitted interference	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4
standards, specifications, approvals standard • for EMC • for hazardous zone	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN
standards, specifications, approvals standard • for EMC • for hazardous zone • for emitted interference • for interference immunity	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4
standards, specifications, approvals standard • for EMC • for hazardous zone • for emitted interference • for interference immunity certificate of suitability	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2
standards, specifications, approvals standard • for EMC • for hazardous zone • for emitted interference • for interference immunity certificate of suitability • CE marking	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2 Yes
standards, specifications, approvals standard • for EMC • for hazardous zone • for emitted interference • for interference immunity certificate of suitability	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2
standards, specifications, approvals standard • for EMC • for hazardous zone • for emitted interference • for interference immunity certificate of suitability • CE marking • railway application in accordance with EN 50121-3-2	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2 Yes
standards, specifications, approvals standard • for EMC • for hazardous zone • for emitted interference • for interference immunity certificate of suitability • CE marking • railway application in accordance with EN 50121-3-2 • railway application in accordance with EN 50121-4	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2 Yes Yes Yes
standards, specifications, approvals standard • for EMC • for hazardous zone • for emitted interference • for interference immunity certificate of suitability • CE marking • railway application in accordance with EN 50121-3-2	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2 Yes Yes
standards, specifications, approvals standard • for EMC • for hazardous zone • for emitted interference • for interference immunity certificate of suitability • CE marking • railway application in accordance with EN 50121-3-2 • railway application in accordance with EN 50121-4 • railway application in accordance with EN 50155	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2 Yes Yes Yes Yes; no coated printed circuit boards
standards, specifications, approvals standard • for EMC • for hazardous zone • for emitted interference • for interference immunity certificate of suitability • CE marking • railway application in accordance with EN 50121-3-2 • railway application in accordance with EN 50121-4 • railway application in accordance with EN 50155 • railway application in accordance with EN 61373	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2 Yes Yes Yes Yes; no coated printed circuit boards Yes; cat. 1, cl.A and cl. B
standards, specifications, approvals standard • for EMC • for hazardous zone • for emitted interference • for interference immunity certificate of suitability • CE marking • railway application in accordance with EN 50121-3-2 • railway application in accordance with EN 50121-4 • railway application in accordance with EN 50155 • railway application in accordance with EN 61373 • fire protection in accordance with EN 45545-2	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2 Yes Yes Yes Yes; no coated printed circuit boards Yes; cat. 1, cl.A and cl. B
standards, specifications, approvals standard • for EMC • for hazardous zone • for emitted interference • for interference immunity certificate of suitability • CE marking • railway application in accordance with EN 50121-3-2 • railway application in accordance with EN 50121-4 • railway application in accordance with EN 50155 • railway application in accordance with EN 61373 • fire protection in accordance with EN 45545-2 further information / internet-Links	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2 Yes Yes Yes Yes; no coated printed circuit boards Yes; cat. 1, cl.A and cl. B
standard	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2 Yes Yes Yes Yes; no coated printed circuit boards Yes; cat. 1, cl.A and cl. B Yes http://www.siemens.com/snst
standard • for EMC • for hazardous zone • for emitted interference • for interference immunity certificate of suitability • CE marking • railway application in accordance with EN 50121-3-2 • railway application in accordance with EN 50121-4 • railway application in accordance with EN 50155 • railway application in accordance with EN 61373 • fire protection in accordance with EN 45545-2 further information / internet-Links Internet-Link • to website: Selection guide for cables and connectors	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2 Yes Yes Yes Yes; no coated printed circuit boards Yes; cat. 1, cl.A and cl. B Yes http://www.siemens.com/snst
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standard • for EMC • for hazardous zone • for emitted interference • for interference immunity certificate of suitability • CE marking • railway application in accordance with EN 50121-3-2 • railway application in accordance with EN 50155 • railway application in accordance with EN 61373 • fire protection in accordance with EN 61373 • fire protection in accordance with EN 45545-2 further information / internet-Links Internet-Link • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2 Yes Yes Yes Yes Yes; no coated printed circuit boards Yes; cat. 1, cl.A and cl. B Yes http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com

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security information

security information

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