SIEMENS

Data sheet

6GK5874-2AA00-2AA2

Product type designation

SCALANCE M874-2 2.5G

SCALANCE M874-2 2.5G router; for wireless IP communication from Ethernet- based automation devices via 2.5G mobile radio VPN, Firewall, NAT; 2-port switch; 1x digital input, 1x digital output; observe national approvals!



Transmission 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	
Interfaces		
Number of electrical connections		
 for internal network 	2	
 for external network 	1	
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 mobile network / is supported	GSM
Type of mobile wireless service / is supported	GPRS, eGPRS
Operating frequency / for GSM transmission	850 MHz, 900 MHz, 1800 MHz, 1900 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 /	330 mA
maximum	
Power loss [W]	
• maximum	8 W
Permitted ambient conditions	
Ambient temperature	
during operation	-20 +60 °C
during storage	-40 +85 °C
Relative humidity / at 25 °C / during operation / maximum	95 %
Protection class IP	IP20
1 Totection class ii	11 20
Design, dimensions and weight	
Design	compact
Depth	127 mm
Height	147 mm
Width	35 mm
Mounting type	
• 35 mm DIN rail mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
• wall mounting	Yes
Product properties, functions, components / genera	al
Product function	

Product functions / management, configuration Product function CLI Yes • Web-based management Yes • MIB support Yes • TRAPs via email Yes Protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTP Yes • HTTPS Yes Type of configuration Web-based management Product functions / Diagnosis Product functions / Diagnosis Product functions / Pes Product functions / Possible / Shall Product function Yes • ShMP v2 Yes • ShMP v2 Yes • ShMP v3 Yes Product function No • Statistics packet Size No • Statistics packet type No • Error statistics No • Statistics packet fiter Log Yes • Packet Fiter Log Yes Product function Product functions / Product function • DHCP client Yes • Product functi	DynDNS-Client	Yes
Product function • CLI • web-based management • MB support • TRAPs via email Protocol / is supported • Telnet • Telnet • Telnet • HTTP • HTTP • HTTPS Type of configuration Product functions / Diagnosis Protocol / is supported • SNMP v1 • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 Product function • Statistics Packet Size • Statistics packet type • Statistics packet type • Statistics packet type • Packet Filter Log Product functions / DHCP Product function • DHCP client • DHCP server - internal network Product functions / Routing Router function • NAT (I'P masquerading) • Port forwarding • NAT traversal • Product functions / Security • NDNS cache Product functions / Security • Statefull Inspection	• no-ip.com client	Yes
Product function • CLI • web-based management • MB support • TRAPs via email Protocol / is supported • Telnet • Telnet • Telnet • HTTP • HTTP • HTTPS Type of configuration Product functions / Diagnosis Protocol / is supported • SNMP v1 • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 Product function • Statistics Packet Size • Statistics packet type • Statistics packet type • Statistics packet type • Packet Filter Log Product functions / DHCP Product function • DHCP client • DHCP server - internal network Product functions / Routing Router function • NAT (I'P masquerading) • Port forwarding • NAT traversal • Product functions / Security • NDNS cache Product functions / Security • Statefull Inspection	Product functions / management, configuration	
web-based management		
• MIB support • TRAPs via email Protocol / is supported • Telnet • HTTP • HTTP • HTTP • HTTPS Type of configuration Product functions / Diagnosis Protocol / is supported • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v2 • SNMP v3 Product function • Statistics Packet Size • Slatistics packet type • Statistics packet type • Statistics packet Filter Log Product function • DHCP client • DHCP client • DHCP server - internal network • NAT (traversal • NAT (traversal • Yes Product functions / Pes • Product function • NAT (traversal • NAT (traversal • Yes Product functions / Security • DNS cache Product functions / Security Suitability for operation / Virtual Private Network Yes Firewall version Statefull Inspection	• CLI	Yes
• TRAPs via email Protocol / is supported • Telnet • HTTP • HTTP • HTTPS Type of configuration Product functions / Diagnosis Protocol / is supported • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v2 • SNMP v3 Product function • Statistics Packet Size • SMMP v3 Product function • Statistics packet type • Statistics packet type • Statistics packet type • Packet Filter Log Product function • DHCP client • DHCP server - internal network Product function • NAT (IP masquerading) • Port forwarding • NAT traversal • NAT traversal • NIS cache Product functions / Security Sutability for operation / Virtual Private Network Product functions / Security Sutability for operation / Virtual Private Network Yes Firewall version Statefull Inspection	web-based management	Yes
Protocol / is supported • Telnet • HTTP • HTTPS Yes Type of configuration Product functions / Diagnosis Protocol / is supported • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v2 • SNMP v3 Product function • Statistics Packet Size • Statistics Packet Size • Statistics packet type • Error statistics • SysLog • Packet Filter Log Product function • DHCP client • DHCP client • DHCP server - internal network Product function • NAT (IP masquerading) • Port forwarding • NaT traversal • 1:1 NAT • DNS cache Product functions / Security Suitability for operation / Virtual Private Network Yes Firewall version Ves Ves Product functions / Security Suitability for operation / Virtual Private Network Yes Firewall version Statefull Inspection	MIB support	Yes
Telnet HTTP HTTP HTTPS Yes Web-based management Product functions / Diagnosis Protocol / is supported SNMP v1 SNMP v2 SNMP v2 SNMP v2c SNMP v3 Yes Product function Statistics Packet Size Statistics packet type Statistics packet type Froduct function Systog Product function Packet Filter Log Product function DHCP Product function Product functions / Security Suitability for operation / Virtual Private Network Product functions Product functions / Security Suitability for operation / Virtual Private Network Product functions / Security Suitability for operation / Virtual Private Network Product functions / Statefull Inspection	TRAPs via email	Yes
HTTP HTTPS Yes Type of configuration Product functions / Diagnosis Protocol / is supported SNMP v1 SNMP v2 SNMP v2 SNMP v2 SNMP v3 Product function Statistics Packet Size Statistics Packet Size Statistics packet type Statistics Packet Filter Log Product function Product function Product function Product function Product function DHCP Product function DHCP client DHCP server - internal network Yes Product function / Ves Statistic Research / Ves Statistic Research / Ves Statistic Research / Ves Statistic Research / Ves Firewall version / Virtual Private Network / Ves Firewall version / Virtual Private Network / Ves	Protocol / is supported	
HTTPS Type of configuration Product functions / Diagnosis Protocol / is supported SNMP v1 SNMP v2 SNMP v2 SNMP v2 SNMP v3 Product function Statistics Packet Size Statistics packet type Froduct function Product function Statistics SysLog Product function Packet Filter Log Product function PhCP client DHCP server - internal network Product function NAT (IP masquerading) Pot forwarding NAT traversal Statistics Product function PhCP client Product functions / December 2 yes Product function / Yes Statistics / Yes Product function / Yes Product function / Yes Statistics / Yes Product function / Yes Statistics / Yes Statistics / Yes Product function / Yes Statistic / Yes Product function / Yes Statistic / Yes Product function / Yes Statistic / Yes Statist	● Telnet	Yes
Type of configuration Product functions / Diagnosis Protocol / is supported • SNMP v1	• HTTP	Yes
Product functions / Diagnosis Protocol / is supported • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 Product function • Statistics Packet Size • Statistics packet type • Statistics packet type • Statistics packet type • Packet Filter Log Product functions / DHCP Product functions / DHCP Product function • DHCP client • DHCP server - internal network Product functions / Routing Router functions / Routing Router function • NAT (IP masquerading) • NAT traversal • NAT traversal • NAT traversal • I'l NAT • DNS cache Product functions / Security Suitability for operation / Virtual Private Network Yes Firewall version Statefull Inspection	• HTTPS	Yes
Protocol / is supported • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v2 • SNMP v3 Product function • Statistics Packet Size • Statistics packet type • Error statistics • SysLog • Packet Filter Log Product functions / DHCP Product functions • DHCP client • DHCP client • DHCP server - internal network Product function • NAT (IP masquerading) • Port forwarding • NAT traversal • In NAT • DNS cache Product functions / Security Suitability for operation / Virtual Private Network Yes Firewall version Yes Statefull Inspection	Type of configuration	Web-based management
Protocol / is supported • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v2 • SNMP v3 Product function • Statistics Packet Size • Statistics packet type • Error statistics • SysLog • Packet Filter Log Product functions / DHCP Product functions • DHCP client • DHCP client • DHCP server - internal network Product function • NAT (IP masquerading) • Port forwarding • NAT traversal • In NAT • DNS cache Product functions / Security Suitability for operation / Virtual Private Network Yes Firewall version Yes Statefull Inspection	Product functions / Diagnosis	
SNMP v1 SNMP v2 SNMP v2c SNMP v3 Yes Product function Statistics Packet Size Statistics packet type Statistics Statistics SysLog Packet Filter Log Product functions / DHCP Product functions / DHCP Product function DHCP client DHCP server - internal network Product function NAT (IP masquerading) Port forwarding NAT traversal NAT traversal NAT traversal DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version Statefull Inspection		
SNMP v2c SNMP v3 Yes Product function Statistics Packet Size Statistics packet type Statistics packet type Error statistics SysLog Pracket Filter Log Product functions / DHCP Product function DHCP client DHCP server - internal network Yes Product function NAT (IP masquerading) Port forwarding NAT traversal SNAT Tra	• SNMP v1	Yes
SNMP v3 Product function Statistics Packet Size Statistics packet type Statistics packet type Statistics No Statistics Statis	• SNMP v2	Yes
Product function • Statistics Packet Size • Statistics packet type • Error statistics • SysLog • Packet Filter Log Product functions / DHCP Product function • DHCP client • DHCP server - internal network Product functions / Routing Router function • NAT (IP masquerading) • Port forwarding • NAT traversal • 1:11 NAT • DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version No No No No No No Yes Yes Yes Yes Statefull Inspection	• SNMP v2c	Yes
Statistics Packet Size Statistics packet type Statistics packet type Firror statistics SysLog Packet Filter Log Product functions / DHCP Product function DHCP client DHCP server - internal network Product functions / Routing Router function NAT (IP masquerading) Port forwarding NAT raversal NAT raversal Statefull Inspection Product functions / Security Suitability for operation / Virtual Private Network Firewall version No	• SNMP v3	Yes
Statistics packet type Error statistics SysLog SysLog Packet Filter Log Product functions / DHCP Product function DHCP client DHCP server - internal network Product functions / Routing Router function NAT (IP masquerading) Port forwarding NAT traversal Since the server of the	Product function	
Error statistics SysLog Yes Packet Filter Log Product functions / DHCP Product function DHCP client DHCP server - internal network Product functions / Routing Router function NAT (IP masquerading) Port forwarding NAT traversal NAT traversal 1:1 NAT DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version No Yes Yes Yes Statefull Inspection	Statistics Packet Size	No
SysLog Packet Filter Log Product functions / DHCP Product function DHCP client DHCP client DHCP server - internal network Product functions / Routing Router function NAT (IP masquerading) Port forwarding NAT traversal NAT traversal Since DHCP server - internal network Product functions / Routing Router function Port forwarding Yes NAT (IP masquerading) Yes NAT traversal Yes NAT traversal Yes Since DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version Statefull Inspection	Statistics packet type	No
Product functions / DHCP Product function DHCP client DHCP server - internal network Product functions / Routing Router function NAT (IP masquerading) Port forwarding NAT traversal NAT traversal Since the content of the content	Error statistics	No
Product functions / DHCP Product function • DHCP client • DHCP server - internal network Product functions / Routing Router function • NAT (IP masquerading) • Port forwarding • NAT traversal • NAT traversal • 1:1 NAT • DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version Yes Yes Yes Yes Statefull Inspection	SysLog	Yes
Product function • DHCP client • DHCP server - internal network Product functions / Routing Router function • NAT (IP masquerading) • Port forwarding • NAT traversal • 1:1 NAT • DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version Yes Yes Yes Yes Statefull Inspection	● Packet Filter Log	Yes
DHCP client DHCP server - internal network Product functions / Routing Router function NAT (IP masquerading) Port forwarding NAT traversal NAT traversal 1:1 NAT DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version Yes Yes Yes Statefull Inspection	Product functions / DHCP	
DHCP server - internal network Product functions / Routing Router function NAT (IP masquerading) Port forwarding NAT traversal NAT traversal 1:1 NAT DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version Yes Yes Statefull Inspection	Product function	
Product functions / Routing Router function NAT (IP masquerading) Port forwarding NAT traversal NAT traversal 1:1 NAT DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version Yes Statefull Inspection	DHCP client	Yes
Router function NAT (IP masquerading) Port forwarding NAT traversal NAT traversal 1:1 NAT DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version Yes Yes Yes Yes Statefull Inspection	DHCP server - internal network	Yes
 NAT (IP masquerading) Port forwarding NAT traversal 1:1 NAT DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version Yes Yes Yes Yes Statefull Inspection 	Product functions / Routing	
Port forwarding NAT traversal 1:1 NAT DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version Yes Yes Yes Yes Statefull Inspection	Router function	
NAT traversal 1:1 NAT Yes DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version Yes Yes Yes Yes Statefull Inspection	 NAT (IP masquerading) 	Yes
◆ 1:1 NAT ◆ DNS cache Product functions / Security Suitability for operation / Virtual Private Network Firewall version Yes Yes Yes Statefull Inspection	 Port forwarding 	Yes
Product functions / Security Suitability for operation / Virtual Private Network Firewall version Yes Yes Statefull Inspection	NAT traversal	Yes
Product functions / Security Suitability for operation / Virtual Private Network Firewall version Statefull Inspection	• 1:1 NAT	Yes
Suitability for operation / Virtual Private Network Firewall version Statefull Inspection	DNS cache	Yes
Firewall version Statefull Inspection		
·		Yes
Product function		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	20
connection	
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 301 489-7, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
• for hazardous zone	EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X
• for emitted interference	ETSI EN 301 489-1, ETSI EN 301 489-7, EN 61000-6-4
• for interference immunity	ETSI EN 301 489-1, ETSI EN 301 489-7, EN 61000-6-2
Certificate of suitability	
• CE marking	Yes
Further Information / Internet Links	

Internet-Link

• to website: Selector for cables and connectors

• to website: Selector SIMATIC NET

SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

to website: CAx Download Managerto website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

Security information

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