# **SIEMENS**

## Data sheet

6GK5812-1AA00-2AA2

Product type designation

## SCALANCE M812-1 ADSL2+ (annex A)

SCALANCE M812-1 ADSL router; for wire-bound IP communication from Ethernet- based automation devices via Internet service provider; VPN, Firewall, NAT; 1x Ethernet RJ45 port, 1x digital input, 1x digital output; ADSL2+, Annex A



Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Transfer rate	
<ul><li>for ADSL2+ transmission / with downlink / maximum</li></ul>	25 Mbit/s
<ul><li>for ADSL2+ transmission / with uplink / maximum</li></ul>	1.4 Mbit/s

Interfaces		
Number of electrical connections		
<ul> <li>for internal network</li> </ul>	1	
<ul><li>for external network</li></ul>	1	
Number of electrical connections		
<ul><li>for power supply</li></ul>	2	
Type of electrical connection		
<ul> <li>for internal network</li> </ul>	RJ45 port (10/100 Mbit/s, TP, autocrossover)	
<ul> <li>for external network</li> </ul>	RJ45 DSL Port	
• 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 WAN connection / is supported	ADSL, ADSL2, ADSL2+
Operating mode for ADSL2/ADSL2+ / is supported	Annex A
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 /	320 mA
maximum	
Power loss [W]	
• maximum	8 W
Permitted ambient conditions	
Ambient temperature	
during operation	0 60 °C
during storage	-40 +70 °C
Relative humidity / at 25 °C / during operation /	95 %
maximum  Destruction store ID	IDOO
Protection class IP	IP20
Design, dimensions and weight	
Design	compact
Depth	127 mm
Height	147 mm
Width	35 mm
Net weight	400 g
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 / general	
Product function	
DynDNS client	Yes

Product functions / management, configuration	
Product function	
• CLI	Yes
<ul><li>web-based management</li></ul>	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 / Diagnosis	
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v2c	Yes
• SNMP v3	Yes
Product function	
Statistics Packet Size	No
<ul> <li>Statistics packet type</li> </ul>	No
Error statistics	No
<ul> <li>SysLog</li> </ul>	Yes
Packet Filter Log	Yes
Product functions / DHCP	
Product function	
<ul> <li>DHCP client</li> </ul>	Yes
DHCP server - internal network	Yes
Product functions / Routing	
Router function	
<ul> <li>NAT (IP masquerading)</li> </ul>	Yes
<ul><li>Port forwarding</li></ul>	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	V
Password protection	Yes
• packet filter	Yes

Broadcast/Multicast/Unicast Limiter	No
Product function	
<ul> <li>broadcast blocking</li> </ul>	No
<ul><li>with VPN connection</li></ul>	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> <li>IPsec tunnel and transport mode</li> </ul>	Yes
Key length	
<ul><li>1 / with IPsec AES / with Virtual Private Network</li></ul>	128 bit
<ul><li>2 / with IPsec AES / with Virtual Private Network</li></ul>	192 bit
<ul> <li>3 / with IPsec AES / with Virtual Private</li> <li>Network</li> </ul>	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	EN 55022, EN 55024
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X
• for safety / from CSA and UL	UL E115352 Vol. X2
• for hazardous zone / from CSA and UL	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC
• for emitted interference	EN 55022 Class A
• for interference immunity	EN 55024
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 Manager

• to 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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