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Data sheet

6GK5816-1BA00-2AA2

SCALANCE M816-1 ADSL router; for wire-bound IP communication from Ethernet- based automation devices via Internet service provider; VPN, Firewall, NAT; 4-port switch; 1x digital input, 1x digital output; ADSL2+,Annex B,J



Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Transfer rate	
 for ADSL2+ transmission / with downlink / maximum 	25 Mbit/s
 for ADSL2+ transmission / with uplink / maximum 	1.4 Mbit/s
Interfaces	
Number of electrical connections	
for internal network	4
 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	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
AN connection	
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Type of WAN connection / is supported	ADSL, ADSL2, ADSL2+
Operating mode for ADSL2/ADSL2+ / is supported	Annex B, Annex J
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

Ambient conditions	
Ambient temperature	
• during operation	0 60 °C
during storage	-40 +70 °C
Relative humidity / at 25 °C / during operation / maximum	95 %
Protection class IP	IP20

8 W

Design, dimensions and weights	
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 features, product functions, product components / general

Product function

• DynDNS client Yes

• no-ip.com client Yes

Product functions / management, configuration, engineering

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 type 	No
Error statistics	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	Vaa
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	EN 55022 EN 55024
• 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 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

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