SIEMENS

Data sheet

6GK5816-1AA00-2AA2

product type designation



M816-1 ADSL2+ (Annex A)

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 A

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
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 / maximum	330 mA
power loss [W]	
• maximum	8 W
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
design, dimensions and weights	
design	compact
depth	127 mm
height	147 mm
width	35 mm
net weight	400 g

fashcining method		
S7-300 rall mounting Ves S7-300 rall mounting Ves	fastening method	
- x91 Floor all mounting - x98 yes product features, product functions, product components / general product function - () PynDNS client - () Pyn	 35 mm top hat DIN rail mounting 	Yes
• well mounting	 S7-300 rail mounting 	Yes
product factores, product functions, product components / general product function	 S7-1500 rail mounting 	Yes
product function OynDNS client OynDNS client OynDNS client Oyndows functions / management, configuration, engineering product functions OCLI Yes Owndows a management ORAP Yes Owndows a management Orap Yes Owndows a management Oyndows a management Oynd	wall mounting	Yes
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product functions / management, configuration, engineering product function	 DynDNS client 	Yes
product function • CLI • web-based management • Wes • Mill support • Mill support • TRAPS waemail • Yes protocol / is supported • Flenet • HTTP • Yes • SNMP va • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v2 • SNMP v3 • SNMP v3 • Statistics packet type • Statistics packet type • statistics packet type • statistics packet type • or enor statistics • Syst.og • packet filter log • packet filter log • DHCP server - internal network • DHCP server - internal network • DHCP server - internal network • Product functions / routing • OHCP functions / routing • OHCP server - internal network • Product functions / routing • oper forwarding • product functions / routing • OHCP security • Wes • It NAT • Yes • It NAT I was a statistic on the product function of the product functio	 no-ip.com client 	Yes
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web-based management	product function	
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• MIB support	 web-based management 	Yes
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type of authentication / with Virtual Private Network / PSK protocol / is supported		IPsec, OpenVPN (as Client)
protocol / is supported • IPsec tunnel and transport mode key length Yes	number of possible connections / with VPN connection	20
		Yes
key length	protocol / is supported	
		Yes
• 1 / with IPsec AES / with Virtual Private Network 128 bit		
	 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 FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-15:2010, EN 60079-0:2009, 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
 CCC approval 	Yes
further information / internet-Links	
Internet-Link	
 to website: Industrial communication 	http://www.siemens.com/simatic-net
to website: Industry Mall	https://mall.industry.siemens.com
 to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
 to website: Selection guide for cables and connectors 	http://www.siemens.com/snst
to website: Image database	http://automation.siemens.com/bilddb
to website: CAx-Download-Manager	http://www.siemens.com/cax
 to website: Industry Online Support 	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)
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