SIEMENS

Data sheet

6GK5816-1BA00-2AA2

product type designation



M816-1 ADSL2+ (Annex B)

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,yes.

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+
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	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

fastening method	
 35 mm top hat 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	100
product function	
DHCP client	Yes
DHCP server - internal network	Yes
product functions / routing	165
router function	
	Yes
NAT (IP masquerading) port forwarding	Yes
port forwardingNAT traversal	Yes
NAT traversal 1:1 NAT	Yes
DNS cache	Yes
product functions / security	100
	Voc
suitability for operation / Virtual Private Network	Yes
firewall version	Statefull Inspection
product function	Vee
password protection pasket filter	Yes
packet filter broadcast/multicast/unicast limiter	Yes
broadcast/multicast/unicast limiter	No
product function	No
broadcast blocking with VRN connection	No
with VPN connection 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	Voc
IPsec tunnel and transport mode	Yes
key length	420 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, 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
 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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