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Data sheet

6GK5816-1AA00-2AA2

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 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	
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 /	330 mA		
maximum			
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 /	95 %		
maximum			
Protection class IP	IP20		
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. er	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		
 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 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

Further information / Internet-Links	
Internet-Link	
• to website: Selector for cables and connectors	http://www.siemens.com/snst
 to website: Selector SIMATIC NET 	http://www.siemens.com/snst
SELECTION TOOL	
 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: 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

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