

Product type designation



SCALANCE M812-1 ADSL2+ (Annex B)

SCALANCE M812-1 ADSL-ROUTER; FOR WIRE-DEPENDENT IP-COMMUNICATION OF ETHERNET- BASED AUTOMATIION DEVICES VIA INTERNE SERVICE PROVIDER VPN, FIREWALL, NAT 1X ETHERNET RJ45 PORT 1X DIG. INPUT, 1X DIG. OUTPUT ADSL2+, ANNEX B

Transmission rate

Transfer rate	10 Mbit/s, 100 Mbit/s
<ul style="list-style-type: none"> Transfer rate / for ADSL2+ transmission / with downlink / maximum 	25 Mbit/s
<ul style="list-style-type: none"> Transfer rate / for ADSL2+ transmission / with uplink / maximum 	1.4 Mbit/s

Interfaces

Number of electrical connections	
<ul style="list-style-type: none"> for internal network 	1
<ul style="list-style-type: none"> for external network 	1
<ul style="list-style-type: none"> for power supply 	2
Type of electrical connection	
<ul style="list-style-type: none"> for internal network 	RJ45 port (10/100 Mbit/s, TP, autocrossover)
<ul style="list-style-type: none"> for external network 	RJ45 port
<ul style="list-style-type: none"> for power supply 	Terminal strip

Signal-Inputs/outputs

Number of electrical connections	
<ul style="list-style-type: none"> for digital input signals 	1
<ul style="list-style-type: none"> for digital output signals 	1
Type of electrical connection	
<ul style="list-style-type: none"> for digital input signals 	Terminal block
<ul style="list-style-type: none"> 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 B
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
Active power loss	
• 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 / maximum	95 %
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
• no-ip.com client	Yes
Product functions / management, configuration	
Product function	
• CLI	No
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
Protocol / is supported	
• Telnet	No
• 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
• 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
Number of possible connections / with VPN connection	20
Type of authentication / with Virtual Private Network / PSK	Yes
Protocol / is supported	
• IPsec tunnel and transport mode	Yes
Key length	

<ul style="list-style-type: none"> • with IPsec DES / with Virtual Private Network 	56 bit
<ul style="list-style-type: none"> • 1 / with IPsec AES / with Virtual Private Network 	128 bit
<ul style="list-style-type: none"> • 2 / with IPsec AES / with Virtual Private Network 	192 bit
<ul style="list-style-type: none"> • 3 / with IPsec AES / with Virtual Private Network 	256 bit
<ul style="list-style-type: none"> • with IPsec 3DES / with Virtual Private Network 	168 bit
Type of Internet key exchange / with Virtual Private Network	
<ul style="list-style-type: none"> • main mode 	Yes
<ul style="list-style-type: none"> • quick mode 	Yes
Type of packet authentication / with Virtual Private Network	MD5, SHA-1
IETF profile / with Virtual Private Network / X.509v3 certificate	Yes

Product functions / Time

Protocol / is supported	
<ul style="list-style-type: none"> • NTP 	Yes
<ul style="list-style-type: none"> • SNTP 	Yes

Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes

Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector for cables and connectors 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/automation/net/catalog
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com

Security information

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