

### Product type designation

### MD741-1 EGPRS ROUTER

SINAUT MD741-1 EGPRS-ROUTER; FOR WIRELESS IP-COMMUNICATION FROM ETHERNET-BASED AUTOMATION UNITS VIA GSM MOBILE RADIO NETWORKS BY USING GPRS SERVICE; NOTE NATIONAL APPROVALS! INTEGRATED FIREWALL AND VPN-ROUTER (IPSEC); QUADBAND-GSM; GPRS/EGPRS MULTISLOT CLASS 12; MANUAL ON CD (GERMAN AND ENGLISH)



### Transmission rate

Transfer rate	10 Mbit/s, 100 Mbit/s
Transfer rate	
<ul style="list-style-type: none"> <li>• for GSM transmission</li> </ul>	9600 bit/s
<ul style="list-style-type: none"> <li>• for GPRS transmission / with downlink / maximum</li> </ul>	85.6 kbit/s
<ul style="list-style-type: none"> <li>• for GPRS transmission / with uplink / maximum</li> </ul>	85.6 kbit/s
<ul style="list-style-type: none"> <li>• with eGPRS transmission / with downlink / maximum</li> </ul>	236.8 kbit/s
<ul style="list-style-type: none"> <li>• with eGPRS transmission / with uplink / maximum</li> </ul>	236.8 kbit/s

### Interfaces

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

- for external network
- for power supply

SMA antenna socket (50 ohms)

Terminal strip

#### WAN connection

Type of mobile network / is supported	GSM
Type of mobile wireless service / is supported	GPRS, eGPRS
Operating frequency / for GSM transmission	850 MHz, 900 MHz, 1800 MHz, 1900 MHz

#### Supply voltage, current consumption, power loss

Supply voltage / Rated value	24 V
Supply voltage / rated value	12 ... 30
Type of voltage / of the supply voltage	DC
Consumed current / at rated supply voltage / maximum	600 mA
Power loss [W]	
• typical	4 W

#### Permitted ambient conditions

Ambient temperature	
• during operation	-20 ... +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	114 mm
Width	45 mm
Net weight	280 g
Mounting type	
• 35 mm DIN rail mounting	Yes
• S7-300 rail mounting	No
• S7-1500 rail mounting	No
• wall mounting	No

#### Product properties, functions, components / general

Product function	
• DynDNS client	Yes

#### Product functions / management, configuration

Product function	
• CLI	No
• web-based management	Yes
• MIB support	No
• TRAPs via email	No

Protocol / is supported	
• Telnet	No
• HTTP	No
• HTTPS	Yes
Type of configuration	Web-based management

### Product functions / Diagnosis

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
Number of possible connections / with VPN connection	10
Type of authentication / with Virtual Private Network / PSK	Yes
Protocol / is supported	
• IPsec tunnel and transport mode	Yes
Key length	
• with IPsec DES / with Virtual Private Network	56 bit

<ul style="list-style-type: none"> <li>• 1 / with IPsec AES / with Virtual Private Network</li> </ul>	128 bit
<ul style="list-style-type: none"> <li>• 2 / with IPsec AES / with Virtual Private Network</li> </ul>	192 bit
<ul style="list-style-type: none"> <li>• 3 / with IPsec AES / with Virtual Private Network</li> </ul>	256 bit
<ul style="list-style-type: none"> <li>• with IPsec 3DES / with Virtual Private Network</li> </ul>	168 bit
Type of Internet key exchange / with Virtual Private Network	
<ul style="list-style-type: none"> <li>• main mode</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• quick mode</li> </ul>	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"> <li>• NTP</li> </ul>	Yes

### Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> <li>• for hazardous zone</li> </ul>	EN60079-15: II 3 G Ex nA IIC T4 Ta= -20°C ... 60°C
<ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>	UL 60950-1, CSA C22.2 no. 60950-1
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	EN 61000-6-2
Certificate of suitability	EN 61000-6-2
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• E1 approval</li> </ul>	No
<ul style="list-style-type: none"> <li>• E1 approval</li> </ul>	No

### Further Information / Internet Links

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

### Security information

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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)

**last modified:**

08/10/2017