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Data sheet 6GK5874-3AA00-2AA2

product type designation	**M874-3 3G**



SCALANCE M874-3 3G router; for the wireless IP communication from Ethernet-based Programmable controllers via 3G mobile radio HSPA+, VPN, Firewall, NAT; 2-port switch; 1x digital input, 1x digital output; observe national approvals!

transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
transfer rate	
● for GPRS transmission / with downlink / maximum	85.6 kbit/s
● for GPRS transmission / with uplink / maximum	85.6 kbit/s
● with eGPRS transmission / with downlink / maximum	236.8 kbit/s
● with eGPRS transmission / with uplink / maximum	236.8 kbit/s
● with UMTS transmission / with downlink / maximum	14.4 Mbit/s
● with UMTS transmission / with uplink / maximum	5.76 Mbit/s
interfaces	
number of electrical connections	
● for internal network	2
● 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	SMA antenna socket (50 ohms)
● 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 wireless network / is supported	GSM, UMTS
type of mobile wireless service / is supported	GPRS, eGPRS, HSPA+
operating frequency / for GSM transmission	850 MHz, 900 MHz, 1800 MHz, 1900 MHz
operating frequency / with UMTS transmission	800 MHz, 850 MHz, 900 MHz, 1900 MHz, 2100 MHz
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

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consumed current / at rated supply voltage / maximum	330 mA
power loss [W]	
● maximum	8 W
ambient conditions	
ambient temperature	
● during operation	-20 ... +60 °C
● during storage	-40 ... +85 °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
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	
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

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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 connection	20
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	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4
● 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	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4
● for interference immunity	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2
certificate of suitability	
● CE marking	Yes
further information / internet-Links	
Internet-Link	
● to website: Selection guide for cables and connectors	http://www.siemens.com/snst
● to web page: selection aid TIA Selection Tool	http://www.siemens.com/snst
● 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
security information	
security information	Siemens provides products and solutions with industrial security

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	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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