

6GK6050-0AM2.-.... RUGGEDCOM RX5000

Technical Data

Product-type designation

RUGGEDCOM RX5000

THE RUGGEDCOM RX5000 IS AN HIGH PORT DENSITY ROUTING AND SWITCHING PLATFORM. UP TO 96 10/100TX + 2 10/100/1000T COPPER PORTS UP TO 48 100FX OPTICAL PORTS UP TO 2 GIGABIT ETHERNET PORTS LONG-HAUL OPTICS ALLOW DISTANCES UP TO 90KM MULTIPLE CONNECTOR TYPES (ST, MTRJ, LC, SC)



Transmission rate

Transfer rate / 1	10 Mbit/s
Transfer rate / 2	100 Mbit/s
Transfer rate / 3	1000 Mbit/s
Transfer rate / 4	10 Gbit/s

Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	98
<ul style="list-style-type: none"> remark 	up to 96 x 10/100TX + 2 x 10/100/1000T Copper Ports
number of electrical/optical connections / for gigabit Ethernet / maximum	26
Number of electrical connections	
<ul style="list-style-type: none"> for network components and terminal equipment 	
<ul style="list-style-type: none"> maximum 	96
<ul style="list-style-type: none"> for gigabit Ethernet / maximum 	26
<ul style="list-style-type: none"> for serial interfaces / in accordance with RS 232/RS 422/RS 485 / maximum 	48
<ul style="list-style-type: none"> for operator console 	1
<ul style="list-style-type: none"> for management purposes 	1
Design of electrical connection	
<ul style="list-style-type: none"> for operator console 	RS232
<ul style="list-style-type: none"> for management purposes 	RJ45
<ul style="list-style-type: none"> for power supply 	3-pole terminal block, permanently

	installed
Number of optical connections / for network components or terminal equipment / maximum	48
Range / at the optical interface / depending on the optical fiber used	2...90 km
operating distance / of optical interface / depending of used optical fiber / at gigabit	0.5...25 km
Signal-Inputs/outputs	
Relay design	Form-C contact relay (SP CO)
type of the relay output	Change-over (NO/NC)
operating voltage / of the signal contact	
<ul style="list-style-type: none"> • at AC <ul style="list-style-type: none"> • maximum • at DC <ul style="list-style-type: none"> • maximum 	150 V
	125 V
Operating current / of signaling contacts	
<ul style="list-style-type: none"> • at AC <ul style="list-style-type: none"> • at 250 V / maximum • at DC <ul style="list-style-type: none"> • at 30 V / maximum 	2 A
	2 A
Supply voltage, current consumption, power loss	
product options / wide range power supply	Yes
product characteristic	
<ul style="list-style-type: none"> • voltage supply modular 	Yes
<ul style="list-style-type: none"> • voltage supply hot-swappable 	Yes
Type of voltage / 3 / of the supply voltage	DC
Supply voltage / 3	
<ul style="list-style-type: none"> • rated value 	88...300 V
Type of voltage / 4 / of the supply voltage	AC
Supply voltage / 4	
<ul style="list-style-type: none"> • rated value 	85...264 V
Power loss	
<ul style="list-style-type: none"> • maximum 	100 W
Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> • during operating • Comment 	-40...+85 °C A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
Coating	Conformal Coating optional
operating condition / fanless operation	Yes
Protection class IP	IP40
Design, dimensions and weight	
Design	19" rack
Number of slots	6
Width	454.66 mm (17.9 in)
Height	175.26 mm (6.9 in)

Depth	302.006 mm (11.89 in)
Net weight	
<ul style="list-style-type: none"> Comment 	Weight is depending on the built in modules
Material / of the enclosure	18 AWG galvanized steel enclosure
Type of mounting	
<ul style="list-style-type: none"> Installation 19 inch 	Yes
<ul style="list-style-type: none"> 35 mm DIN rail mounting 	No
<ul style="list-style-type: none"> wall mounting 	Yes
Product properties, functions, components / general	
product function	
<ul style="list-style-type: none"> RAW socket mode for any serial protocols 	Yes
number of automatically learnable MAC addresses	98304
memory capacity	
<ul style="list-style-type: none"> of message buffer / maximum 	2 Mibyte
switch-latency period	10.5 µs
transfer rate / of the switch	88 Gbit/s
number of priority channels	4
product characteristic	
<ul style="list-style-type: none"> no head-off-line-blocking 	Yes
<ul style="list-style-type: none"> Switching-Method Store & Forward 	Yes
<ul style="list-style-type: none"> Zero-Packet-Loss technology 	Yes
Product functions / management, configuration	
Product function	
<ul style="list-style-type: none"> CLI 	Yes
<ul style="list-style-type: none"> web-based management 	Yes
<ul style="list-style-type: none"> MIB support 	Yes
<ul style="list-style-type: none"> RMON 	Yes
<ul style="list-style-type: none"> switch-managed 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> Telnet 	Yes
<ul style="list-style-type: none"> HTTP 	Yes
<ul style="list-style-type: none"> HTTPS 	No
<ul style="list-style-type: none"> TFTP 	Yes
<ul style="list-style-type: none"> NETCONF 	Yes
<ul style="list-style-type: none"> IGMP (snooping/querier) 	Yes
number of groups / at IGMP	256
Protocol / is supported	
<ul style="list-style-type: none"> SNMP v1 	Yes
<ul style="list-style-type: none"> SNMP v2 	No
<ul style="list-style-type: none"> SNMP v2c 	Yes
<ul style="list-style-type: none"> SNMP v3 	Yes
product function / for MIB-support	
<ul style="list-style-type: none"> by BRIDGE-MIB 	RFC1493
<ul style="list-style-type: none"> by IF-MIB 	RFC2863

• by RMON-MIB	RFC2819
• by RSTP-MIB	draft-ietf-bridge-bridgemib-smiv2-03-RSTP-MIB
• by SNMPv2-MIB	RFC1907
• by SNMPv2-SMI	RFC2578
• by SNMPv2-TC	RFC2579
• by TCP-MIB	RFC2012
• by UDP-MIB	RFC2013
Product functions / VLAN	
Product function	
• VLAN - port based	Yes
Number of VLANs / maximum	255
VLAN-Identification number	1...4094
Protocol / is supported / GVRP	Yes
Product functions / DHCP	
Product function	
• DHCP client	Yes
• DHCP Option 82	No
• DHCP Option 66	No
• DHCP Option 67	No
Product functions / Routing	
Product function	
• dynamic IP routing	Yes
protocol / is supported	
• RIP v1	Yes
• RIPv2	Yes
• OSPFv2	Yes
• VRRP	No
• BGP	Yes
Product functions / Redundancy	
Product function	
• redundancy procedure STP	Yes
• RSTP redundancy protocol	Yes
• redundancy procedure MSTP	Yes
• eRSTP	Yes
Protocol / is supported	
• STP	Yes
• RSTP	Yes
• MSTP	Yes
Product functions / Security	
product function	
• ACL - MAC-based	Yes
• ACL-Role based	Yes
• IEEE 802.1x (radius)	Yes
• blocking of communication via physical ports	Yes

protocol / is supported	
• SSH	Yes
product function / port-rate-limiting	Yes
Product functions / Time	
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
Type of time synchronization	NTP
Standards, specifications, approvals	
Standard	
• for EMC	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
• for safety / of CSA and UL	cTUVus (Compliant to UL 60950-1:2007, CAN/CSA-C22.2 No. 60950-1-07, EN 60950-1:2006)
Laser protection class	Complies with 21 CFR Chapter1, Subchapter J
Verification of suitability	
• CE mark	Yes
• IEC 61850-3	Yes
product conformity	
• according to IEEE 802.3-10BaseT	Yes
• according to IEEE 802.3u-100BaseTX	Yes
• according to IEEE 802.3u-100BaseFX	Yes
• according to IEEE 802.3x-Flow Control	Yes
• according to IEEE 802.3ab-1000BaseT	Yes
• according to IEEE 802.3ad-Link Aggregation	Yes
• according to IEEE 802.1d-MAC Bridges	Yes
• according to IEEE 802.1d-STP	Yes
• according to IEEE 802.1p-class of service	Yes
• according to IEEE 802.1Q-VLAN tagging	Yes
• according to IEEE 802.1Q-2005 (formerly IEEE 802.1s) MSTP	Yes
• according to IEEE 802.1w-RRST	Yes
product conformity	
• RFC768-UDP	Yes
• RFC783-TFTP	Yes
• RFC791-IP	Yes
• RFC792-ICMP	Yes
• RFC793-TCP	Yes
• RFC826-ARP	Yes
• RFC854-Telnet	Yes
• RFC894-IP over Ethernet	Yes
• RFC1112-IGMPv1	Yes
• RFC1519-CIDR	Yes
• RFC2030-SNTP	Yes
• RFC2068-HTTP	Yes

- RFC2236-IGMPv2 Yes
- RFC2475-Differentiated Service No

Further Information / Internet Links

Internet link

- to website
- Industry Mall/RUGGEDCOM Selector <http://ruggedcom-selector.automation.siemens.com>
- Siemens RUGGEDCOM <http://siemens.com/ruggedcom>
- Industry Mall <http://www.siemens.com/industrial-controls/mall>
- selection instrument cables and connectors <http://www.siemens.com/snst>
- CAx-Download-Manager <http://www.siemens.com/cax>
- industrial communication <http://www.siemens.com/simatic-net>
- Information und Download Center <http://www.siemens.com/automation/net/catalog>
- image database <http://automation.siemens.com/bilddb>
- Industry Online Support <http://support.automation.siemens.com>

letzte Änderung:

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