

6GK6022-0AS2.-.... RSG2200

Technical Data

Product-type designation

RUGGEDCOM RSG2200

Product description

9-Port Managed Gigabit Ethernet Switch, 128-bit Encryption

THE RUGGEDCOM RSG2200 IS AN INDUSTRIALLY HARDENED, FULLY MANAGED MODULAR GIGABIT ETHERNET SWITCH; 128-BIT ENCRYPTION; UP TO 9-GIGABIT ETHERNET PORTS COPPER AND/OR FIBER; UP TO 9 100FX FIBER FAST ETHERNET PORTS; 2 PORT MODULES FOR TREMENDOUS FLEXIBILITY; MULTIMODE, SINGLEMODE; NON-BLOCKING, STORE AND FORWARD SWITCHING; LONG HAUL OPTICS ALLOW GIGABIT DISTANCES UP TO 70KM; MULTIPLE CONNECTOR TYPES (LC, SC, SFP, GBIC)



Transmission rate

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

Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	9
<ul style="list-style-type: none"> remark 	5 Slots in sum: 1, 2, 3, 4 two Ethernet-Ports each, 5 one Ethernet-Port
number of electrical/optical connections / for gigabit Ethernet / maximum	9
Number of electrical connections	
<ul style="list-style-type: none"> for network components and terminal equipment maximum for gigabit Ethernet / maximum for operator console for management purposes 	9 9 1 0
Design of electrical connection	
<ul style="list-style-type: none"> for operator console for power supply and signaling contact 	RJ45 10-pole terminal block, screwable or plugable, screw contact
Number of optical connections / for network components or terminal equipment / maximum	9

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...70 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 maximum 	250 V
<ul style="list-style-type: none"> at DC maximum 	125 V
Operating current / of signaling contacts	
<ul style="list-style-type: none"> at AC at 250 V / maximum 	2 A
<ul style="list-style-type: none"> at DC at 30 V / maximum 	2 A
Supply voltage, current consumption, power loss	
product options / wide range power supply	Yes
Type of voltage / 1 / of the supply voltage	DC
Supply voltage / 1	
<ul style="list-style-type: none"> rated value rated value 	24 V
	10...36 V
Current consumed / 1 / at rated value of supply voltage / max.	1.2 A
Type of voltage / 2 / of the supply voltage	DC
Supply voltage / 2	
<ul style="list-style-type: none"> rated value rated value 	48 V
	36...72 V
Current consumed / 2 / at rated value of supply voltage / max.	0.6 A
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 	28 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 of display / LED panel mounted on the front or on the rear side	Yes
Design	19" rack
number of height rack units / related to 19 inch cabinet	1
Number of slots	5
Width	464.8 mm (18.3 in)
Height	44.2 mm (1.74 in)
Depth	315 mm (12.4 in)
Net weight	4.8 kg
Material / of the enclosure	18 AWG galvanized steel enclosure
Type of mounting	
• Installation 19 inch	Yes
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
Product properties, functions, components / general	
number of automatically learnable MAC addresses	8192
memory capacity	
• of MAC-address table	64 Kibyte
• of message buffer / maximum	2 MiByte
switch-latency period	7 µs
transfer rate / of the switch	18 Gbit/s
number of priority channels	4
product characteristic	
• no head-off-line-blocking	Yes
• Switching-Method Store & Forward	Yes
• Zero-Packet-Loss technology	Yes
Product functions / management, configuration	
Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• RMON	Yes
• switch-managed	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	No
• TFTP	Yes
• SFTP	Yes
• IGMP (snooping/querier)	Yes
number of groups / at IGMP	256
Protocol / is supported	

• SNMP v1	Yes
• SNMP v2	No
• SNMP v2c	Yes
• SNMP v3	Yes
product function / for MIB-support	
• by BRIDGE-MIB	RFC1493
• 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
Protocol / is supported / GVRP	Yes
Product functions / DHCP	
Product function	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	No
• DHCP Option 67	No
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	
• IEEE 802.1x (radius)	Yes
protocol / is supported	
• TACACS+	Yes
• SSH	Yes
• SSL	Yes
key length	
• at SSL	128 bit

• at RSA	1024 bit
product function / port-rate-limiting	Yes
Product functions / Time	
product function	
• SNTP-client	Yes
• SNTP-server	Yes
Protocol / is supported	
• SNTP	Yes
Standards, specifications, approvals	
Standard	
• for EMC	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
• for safety / of CSA and UL	cCSAus (Compliant with CSA C22.2 No. 60950, UL60950, EN60950)
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
• according to IEEE 802.1x-port based Network Access Control	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
• RFC1541-DHCP (client)	Yes

- RFC2068-HTTP Yes
- RFC2236-IGMPv2 Yes
- RFC2284-EAP Yes
- RFC2475-Differentiated Service Yes
- RFC2865-RADIUS Yes
- RFC3414-SNMPv3-USM Yes
- RFC3415-SNMPv3-VACM Yes

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:

Feb 24, 2014