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Data sheet 6GK6023-0AS2.-....

RUGGEDCOM RSG2300 is an industrially hardened, fully managed, modular Ethernet switch; 128-bit Encryption; 24 10/100TX copper ports Optional: up to 4 1000LX Gigabit Ethernet ports (copper and/or fiber) and up to 8 100FX Fiber Fast Ethernet ports; 2 port modules for tremendous flexibility; Non-blocking, store and forward switching; multimode, singlemode; Long haul optics allow distances up to 90km; Multiple connector types (ST, MTRJ, LC, SC)



product type designation	RUGGEDCOM RSG2300
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
number of ports / maximum	32; Number of ports depending on configuration
interfaces / other	
number of electrical connections	
• for operator console	1
 for management purposes 	0
type of electrical connection	
 for operator console 	RJ45
 for power supply and signaling contact 	10-pole terminal block, screwable or plugable, screw contact
signal inputs/outputs	
relay design	Form-C contact relay (SPDT)
type of relay output	changeover contact (CO)
operating voltage / of the signaling contacts	
at AC / maximum	230 V
at DC / maximum	250 V
operational current / of the signaling contacts	
at AC / at 250 V / maximum	2 A
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 / rated value 	24 V
power loss [W] / 1 / rated value	25 W
 consumed current / 1 / at rated supply voltage / maximum 	1.2 A
supply voltage / 1 / rated value	10 36 V
type of voltage / 2 / of the supply voltage	DC
 supply voltage / 2 / rated value 	48 V
 consumed current / 2 / at rated supply voltage / maximum 	0.6 A
supply voltage / 2 / rated value	36 59 V
type of voltage / 3 / of the supply voltage	DC
supply voltage / 3 / rated value	88 300 V
type of voltage / 4 / of the supply voltage	AC
supply voltage / 4 / rated value	85 264 V
ambient conditions	
ambient temperature	
 during operation 	-40 +85 °C
• note	A maximum operating temperature of +85 $^{\circ}\text{C}$ is permissible for a duration of 16 hours

operating condition / fanless operation	Yes
protection class IP	IP3X
design, dimensions and weights	II V/
display version / LED panel mounted on the front or on the rear	Yes
side	165
design	19" rack
number of modular height units / relating to 19-inch cabinet	1
number of slots	4
width	438.15 mm
height	44.45 mm
depth	303.28 mm
net weight	5.2 kg
product feature / conformal coating	optional
material / of the enclosure	18 AWG galvanized steel enclosure
fastening method	
• 19-inch installation	Yes
 35 mm top hat DIN rail mounting 	Yes
wall mounting	Yes
product features, product functions, product components / gen	neral
number of automatically learnable MAC addresses	8192
storage capacity	
 of the MAC-address table 	64 Kibyte
of message buffer / maximum	640 Kibyte
switch latency period	6 µs
transfer rate / of the switch	50.4 Gbit/s
number of priority channels	4
product feature	
 no head-off-line-blocking 	Yes
 Store & Forward switching method 	Yes
Zero-Packet-Loss technology	Yes; Zero-Packet-Loss applies to fiber optic interfaces
product functions / management, configuration, engineering	
product function	
• CLI	Yes
web-based management	Yes
MIB support	Yes
• RMON	Yes
product function / switch-managed	Yes
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• SFTP	Yes
• SNMP v1	Yes
• SNMP v2	No
• SNMP v2c	Yes
SNMP v3	Yes
	V
• IGMP (snooping/querier)	Yes
IGMP (snooping/querier) number of groups / at IGMP	Yes 256
IGMP (snooping/querier) number of groups / at IGMP product function	256
IGMP (snooping/querier) number of groups / at IGMP product function for MIB support / by BRIDGE-MIB	256 RFC4188
IGMP (snooping/querier) number of groups / at IGMP product function for MIB support / by BRIDGE-MIB for MIB support / by IF-MIB	256 RFC4188 RFC2863
IGMP (snooping/querier) number of groups / at IGMP product function for MIB support / by BRIDGE-MIB for MIB support / by IF-MIB for MIB support / by RMON-MIB	256 RFC4188 RFC2863 RFC2819
IGMP (snooping/querier) number of groups / at IGMP product function for MIB support / by BRIDGE-MIB for MIB support / by IF-MIB for MIB support / by RMON-MIB for MIB support / by RSTP-MIB	256 RFC4188 RFC2863 RFC2819 RFC4318
IGMP (snooping/querier) number of groups / at IGMP product function for MIB support / by BRIDGE-MIB for MIB support / by IF-MIB for MIB support / by RMON-MIB for MIB support / by RSTP-MIB for MIB support / by SNMPv2-MIB	256 RFC4188 RFC2863 RFC2819 RFC4318 RFC1907
IGMP (snooping/querier) number of groups / at IGMP product function for MIB support / by BRIDGE-MIB for MIB support / by IF-MIB for MIB support / by RMON-MIB for MIB support / by RSTP-MIB for MIB support / by SNMPv2-MIB for MIB support / by SNMPv2-SMI	256 RFC4188 RFC2863 RFC2819 RFC4318 RFC1907 RFC2578
IGMP (snooping/querier) number of groups / at IGMP product function for MIB support / by BRIDGE-MIB for MIB support / by IF-MIB for MIB support / by RMON-MIB for MIB support / by RSTP-MIB for MIB support / by SNMPv2-MIB for MIB support / by SNMPv2-SMI for MIB support / by SNMPv2-TC	256 RFC4188 RFC2863 RFC2819 RFC4318 RFC1907 RFC2578 RFC2579
IGMP (snooping/querier) number of groups / at IGMP product function for MIB support / by BRIDGE-MIB for MIB support / by IF-MIB for MIB support / by RMON-MIB for MIB support / by RSTP-MIB for MIB support / by SNMPv2-MIB for MIB support / by SNMPv2-SMI for MIB support / by SNMPv2-TC for MIB support / by TCP-MIB	256 RFC4188 RFC2863 RFC2819 RFC4318 RFC1907 RFC2578 RFC2579
IGMP (snooping/querier) number of groups / at IGMP product function for MIB support / by BRIDGE-MIB for MIB support / by IF-MIB for MIB support / by RMON-MIB for MIB support / by RSTP-MIB for MIB support / by SNMPv2-MIB for MIB support / by SNMPv2-SMI for MIB support / by SNMPv2-TC for MIB support / by TCP-MIB for MIB support / by UDP-MIB	256 RFC4188 RFC2863 RFC2819 RFC4318 RFC1907 RFC2578 RFC2579
IGMP (snooping/querier) number of groups / at IGMP product function for MIB support / by BRIDGE-MIB for MIB support / by IF-MIB for MIB support / by RMON-MIB for MIB support / by RSTP-MIB for MIB support / by SNMPv2-MIB for MIB support / by SNMPv2-SMI for MIB support / by SNMPv2-TC for MIB support / by TCP-MIB	256 RFC4188 RFC2863 RFC2819 RFC4318 RFC1907 RFC2578 RFC2579

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	Yes
DHCP Option 66	No
DHCP Option 67	No
product functions / redundancy	
product function	
• ring redundancy	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
 media redundancy protocol (MRP) with redundancy 	Yes
manager	
 redundancy procedure STP 	Yes
 redundancy procedure RSTP 	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
• IEEE 802.1x (radius)	Yes
 blocking of communication via physical ports 	Yes
protocol / is supported	
• TACACS+	Yes
• SSH	Yes
• SSL	Yes
key length	
• with SSL	128 bit
• with 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 safety / from CSA and UL	cCSAus (Compliant with CSA C22.2 No. 60950, UL60950, EN60950)
reference code	
 according to IEC 81346-2 	KF
 according to IEC 81346-2:2019 	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standard	
• for EMC	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
standards, specifications, approvals / other	
laser protection class	Complies with 21 CFR chapter 1, subchapter J
certificate of suitability	
• IEC 61850-3	Yes
 according to FIPS 140-2 	No
according to Common Criteria (CC)	No

andards, specifications, approvals / product conformity		
product conformity	Vac	
according to IEEE 802.3-10BaseT	Yes	
according to IEEE 802.3u-100BaseTX	Yes	
according to IEEE 802.3u-100BaseFX	Yes	
according to IEEE 802.3ab-1000BaseT	Yes	
according to IEEE 802.3z-1000BaseLX	Yes	
 according to IEEE 802.3ad-Link Aggregation 	Yes	
 according to IEEE 802.3x-Flow Control 	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	
• 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	
• RFG3413-SNMPV3-VACM	169	

further information / internet links

internet link

• to website: Industry Mall/RUGGEDCOM selector

• to website: Siemens RUGGEDCOM

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Selection guide for cables and connectors

• to website: Image database

• to website: CAx-Download-Manager

• to website: Industry Online Support

 $\underline{http://ruggedcom\text{-}selector.automation.siemens.com}$

http://siemens.com/ruggedcom

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

https://sie.ag/2QdlxcP

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

security information

security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. Siemens' products and solutions

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https://www.siemens.com/cert. (V4.6)

Approvals / Certificates

General Product Approval

EMV



Manufacturer Declaration





<u>KC</u>



Test Certificates

Marine / Shipping

other

Dangerous Good





inspection certificate

<u>Dangerous Goods Information</u>

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