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Data sheet 6GK6008-3AS20-0...



The RUGGEDCOM i803 is a compact, fully managed Ethernet switches designed to operate reliably in harsh industrial environments. managed or unmanaged; regular or extended temperature; fiber optical or copper interfaces; Fast or Gigabit Ethernet; 128-bit Encryption; Ethernet Ports: 4x 10/100Tx + 1x 100FX + 2x 1000LX or 2x 100FX

Figure similar

product type designation	RUGGEDCOM i803
transfer rate	NOOCEDOOM 1000
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
number of ports / maximum	8; Number of ports depending on configuration
interfaces / other	o, Number of ports depending on configuration
number of electrical connections	4
• for operator console	1
• for management purposes	0
type of electrical connection	Poopo
• for operator console	RS232
for signaling contact	3-pole terminal block, screwable
• for power supply	5-pole terminal block, screwable
signal inputs/outputs	
relay design	Optional Form-C contact relay (SPDT) as alarm relay
type of relay output	Changeover contact (CO)
operational current / of the signaling contacts	
at DC / at 30 V / maximum	2 A
supply voltage, current consumption, power loss	
type of voltage / 1 / of the supply voltage	DC
supply voltage / 1 / rated value	24 V
power loss [W] / 1 / rated value	9 W
 consumed current / 1 / at rated supply voltage / maximum 	0.4 A
supply voltage / 1 / rated value	9 32 V
 type of electrical connection / 1 / for power supply 	5-pole terminal block, can be screwed
ambient conditions	
ambient temperature	
 during operation 	-20 +60 °C
• note	Optional temperature range -40 °C +85 °C
operating condition / fanless operation	Yes
protection class IP	IP4X
design, dimensions and weights	
design	compact
width	56.5 mm
height	134.5 mm
depth	99.5 mm
net weight	1 kg
product feature / conformal coating	optional
material / of the enclosure	Cast Aluminum Enclosure
fastening method	

35 mm top hat DIN rail mounting	Yes
product features, product functions, product components / gen	eral
storage capacity	
 of the MAC-address table 	16 kbyte
of message buffer / maximum	128 kbyte
switch latency period	4 μs
transfer rate / of the switch	7.6 Gbit/s
number of priority channels	4
product feature	
 no head-off-line-blocking 	Yes
Store & Forward switching method	Yes
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
• SNMP v1	Yes
• SNMP v2	No
• SNMP v2c	Yes
• SNMP v3	Yes
IGMP (snooping/querier)	Yes
number of groups / at IGMP	256
product function	DE04400
• for MIB support / by BRIDGE-MIB	RFC4188
• for MIB support / by IF-MIB	RFC2863
for MIB support / by RMON-MIB for MIB support / by DSTP MIB	RFC2819
for MIB support / by SNMD: 2 MIB	RFC4318
• for MIB support / by SNMPv2-MIB	RFC1907
for MIB support / by SNMPv2-SMI for MIP support / by SNMPv2-TC	RFC2578
• for MIB support / by TCD MIP	RFC2579
• for MIB support / by TCP-MIB	RFC2012
for MIB support / by UDP-MIB	RFC2013
product functions / VLAN	
product function	Voc
VLAN - port based pumber of VLANs / maximum	Yes
number of VLANs / maximum	255
VLAN identification number protocol / is supported / GVRP	14094
protocol / is supported / GVRP	Yes
product function • DHCP client	Yes
DHCP Client DHCP Option 82	Yes
DHCP Option 62 DHCP Option 66	No
DHCP Option 66 DHCP Option 67	No
product functions / routing	INO
protocol / is supported	
PPP	Yes
product functions / redundancy	165
product function	Voc
redundancy procedure STP redundancy procedure DSTP	Yes
 redundancy procedure RSTP 	Yes
a redundancy procedure MCTD	Voo
redundancy procedure MSTPeRSTP	Yes Yes

protocol / is supported	
• STP	Yes
• RSTP	Yes
• MSTP	Yes
product functions / security	
product function	
• IEEE 802.1x (radius)	Yes
RADIUS client	Yes
protocol / is supported	
• RADIUS	Yes
• TACACS+	Yes
• SSL	Yes
key length	
• with SSL	56 bit
• with RSA	1024 bit
product function / port-rate-limiting	Yes
adjustable port-rate-limitation	128 kbit/s 8 Mbit/s
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	CSA C22.2 No. 60950-1-03, UL 60950-1, UL 508
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 / hazardous environments	
standard / for hazardous zone	ATEX Zone 2 (IEC/EN 60079-15)
standards, specifications, approvals / other	
laser protection class	Complies with 21 CFR chapter 1, subchapter J
standards, specifications, approvals / product conformity	
product conformity	
according to IEEE 802.3-10BaseT	Yes
according to IEEE 802.3u-100BaseTX	Yes
according to IEEE 802.3u-100BaseFX according to IEEE 803.3ab 1000BaseFX	Yes
according to IEEE 802.3ab-1000BaseT according to IEEE 802.3ab-1000BaseI V	Yes
according to IEEE 802.3z-1000BaseLX according to IEEE 802.3zd Link Aggregation	Yes
according to IEEE 802.3ad-Link Aggregation according to IEEE 802.3x Flow Control	Yes
according to IEEE 802.3x-Flow Control according to IEEE 803.1d MAC Bridges	Yes
according to IEEE 802.1d-MAC Bridges according to IEEE 802.1d STP	Yes Yes
 according to IEEE 802.1d-STP according to IEEE 802.1p-class of service 	Yes
according to IEEE 802.1p-class of service according to IEEE 802.1Q-VLAN tagging	Yes
according to IEEE 802.1Q-VEAN tagging according to IEEE 802.1Q-2005 (formerly IEEE 802.1s)	Yes
MSTP	
• according to IEEE 802.1w-RRST	Yes
 according to IEEE 802.1x-port based Network Access Control 	Yes
• RFC768-UDP	Yes
RFC768-UDPRFC783-TFTP	Yes Yes
• RFC783-TFTP	Yes
• RFC783-TFTP • RFC791-IP	Yes Yes

 RFC854-Telnet Yes • RFC894-IP over Ethernet Yes • RFC1112-IGMPv1 Yes • RFC1519-CIDR Yes • RFC1541-DHCP (client) Yes • RFC2030-SNTP 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: Selection guide for cables and connectors

• to website: Industry Mall/RUGGEDCOM selector

• to website: Industrial communication

• to website: Siemens RUGGEDCOM

• to web page: SiePortal

• to website: Image database

• to website: CAx-Download-Manager

• to website: Industry Online Support

https://support.industry.siemens.com/cs/ww/de/view/109766358

https://www.siemens.com/ruggedcom-selector

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

https://www.siemens.com/ruggedcom

https://sieportal.siemens.com/

https://www.automation.siemens.com/bilddb

https://www.siemens.com/cax

https://support.industry.siemens.com

ecurity information

security information

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Approvals / Certificates

General Product Approval

For use in hazardous locations

Test Certificates

other



Manufacturer Declaration







inspection certificate

Dangerous Good

Environment

Dangerous Goods In**formation**



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6/3/2024

