

6GK6008-0AS20-0... RUGGEDCOM I800

Technical Data

Product-type designation

RUGGEDCOM i800

Product description



Compact Managed...t Encrypt004

THE RUGGEDCOM I800 IS A COMPACT, FULLY MANAGED ETHERNET SWITCHES DESIGNED TO OPERATE RELIABLY IN HARSH INDUSTRIAL ENVIRONMENTS. MANAGED OR UNMANAGED; REGULAR OR EXTENDED TEMPERATURE; COPPER INTERFACES; FAST ETHERNET; 128-BIT ENCRYPTION; ETHERNET PORTS: 8 X 10/100TX PORTS

Transmission rate

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

Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	8
• remark	8 x 10/100TX
number of electrical/optical connections / for gigabit Ethernet / maximum	0
Number of electrical connections	
• for network components and terminal equipment	
• maximum	8
• for gigabit Ethernet / maximum	0
• for operator console	1
• for management purposes	0
Design of electrical connection	
• for operator console	RS232
• for signaling contact	3-pole terminal block, screwable
• for power supply	5-pole terminal block, screwable
Range / at the optical interface / depending on the optical fiber used	2...20 km
operating distance / of optical interface / depending of used optical fiber / at gigabit	0.5...10 km

Signal-Inputs/outputs	
Relay design	Optional Form-C contact relay (SP CO) as alarm relay
type of the relay output	Change-over (NO/NC)
Operating current / of signaling contacts	
<ul style="list-style-type: none"> at DC at 30 V / maximum 	1 A
Supply voltage, current consumption, power loss	
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...32 V
Current consumed / 1 / at rated value of supply voltage / max.	0.4 A
Power loss	
<ul style="list-style-type: none"> maximum 	9 W
Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> during operating 	-20...+60 °C
Coating	Conformal Coating optional
operating condition / fanless operation	Yes
Protection class IP	IP40
Design, dimensions and weight	
Design	compact
Width	51 mm (2 in)
Height	114 mm (4.5 in)
Depth	89 mm (3.5 in)
Net weight	1 kg
Material / of the enclosure	Heavy Duty Cast Aluminum Enclosure HazLoc Rated
Type of mounting	
<ul style="list-style-type: none"> 35 mm DIN rail mounting 	Yes
Product properties, functions, components / general	
memory capacity	
<ul style="list-style-type: none"> of MAC-address table of message buffer / maximum 	16 Kibyte
	1 Mibyte
switch-latency period	8 µs
transfer rate / of the switch	5.2 Gbit/s
number of priority channels	4
product characteristic	
<ul style="list-style-type: none"> no head-off-line-blocking Switching-Method Store & Forward 	Yes
	Yes
Product functions / management, configuration	
Product function	
<ul style="list-style-type: none"> 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
• 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
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 / Routing	
protocol / is supported	
• PPP	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	
• IEEE 802.1x (radius)	Yes
• RADIUS client	Yes
protocol / is supported	
• RADIUS	Yes
• TACACS+	Yes
• SSL	Yes
key length	
• at SSL	56 bit
• at 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 EMC	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
• for hazardous zone	ATEX Zone 2 (IEC/EN 60079-15)
• for safety / of CSA and UL	cUL508 (UL508/CSA C22, EN61010-1)
Laser protection class	Complies with 21 CFR Chapter1, Subchapter J
Verification of suitability	
• CE mark	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

<ul style="list-style-type: none"> • according to IEEE 802.1Q-VLAN tagging 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.1Q-2005 (formerly IEEE 802.1s) MSTP 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.1w-RRST 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.1x-port based Network Access Control 	Yes
product conformity	
<ul style="list-style-type: none"> • RFC768-UDP 	Yes
<ul style="list-style-type: none"> • RFC783-TFTP 	Yes
<ul style="list-style-type: none"> • RFC791-IP 	Yes
<ul style="list-style-type: none"> • RFC792-ICMP 	Yes
<ul style="list-style-type: none"> • RFC793-TCP 	Yes
<ul style="list-style-type: none"> • RFC826-ARP 	Yes
<ul style="list-style-type: none"> • RFC854-Telnet 	Yes
<ul style="list-style-type: none"> • RFC894-IP over Ethernet 	Yes
<ul style="list-style-type: none"> • RFC1112-IGMPv1 	Yes
<ul style="list-style-type: none"> • RFC1519-CIDR 	Yes
<ul style="list-style-type: none"> • RFC1541-DHCP (client) 	Yes
<ul style="list-style-type: none"> • RFC2030-SNTP 	Yes
<ul style="list-style-type: none"> • RFC2068-HTTP 	Yes
<ul style="list-style-type: none"> • RFC2236-IGMPv2 	Yes
<ul style="list-style-type: none"> • RFC2284-EAP 	Yes
<ul style="list-style-type: none"> • RFC2475-Differentiated Service 	Yes
<ul style="list-style-type: none"> • RFC2865-RADIUS 	Yes
<ul style="list-style-type: none"> • RFC3414-SNMPv3-USM 	Yes
<ul style="list-style-type: none"> • RFC3415-SNMPv3-VACM 	Yes
Further Information / Internet Links	
Internet link	
<ul style="list-style-type: none"> • to website 	
<ul style="list-style-type: none"> • Industry Mall/RUGGEDCOM Selector 	http://ruggedcom-selector.automation.siemens.com
<ul style="list-style-type: none"> • Siemens RUGGEDCOM 	http://siemens.com/ruggedcom
<ul style="list-style-type: none"> • Industry Mall 	http://www.siemens.com/industrial-controls/mall
<ul style="list-style-type: none"> • selection instrument cables and connectors 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • CAx-Download-Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • Information und Download Center 	http://www.siemens.com/automation/net/catalog
<ul style="list-style-type: none"> • image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • Industry Online Support 	http://support.automation.siemens.com

