Automation Technology > Industrial Communication > Industrial Ethernet > RUGGEDCOM Ethernet Switches > RUGGEDCOM i800 managed or unmanaged

6GK6008-0AS20-0... RUGGEDCOM 1800

Technical Data

Product-type designation	RUGGEDCOM i800
Product description	Compact Managedt Encrypt004
SIEMENS WWERI III POWER2 ALAIM 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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
	5-pole terminal block, screwable
for power supply Range (at the optical interface (depending on the	220 km
Range / at the optical interface / depending on the optical fiber used	
operating distance / of optical interface / depending of used optical fiber / at gigabit	0.510 km

Relay designOptional Form-C contact relay (SP CO) as alarm relaytype of the relay outputChange-over (NO/NC)Operating current/ of signaling contacts at 30 V / maximum1ASupply voltage, current consumption, power lossDCSupply voltage / 1 rated value24 V- rated value1032 VCurrent consumed / 1 / at rated value of supply voltage / max0.4 APower loss maximum9 WPermitted ambient conditions-Ambient temperature during operatingConform al Coating optionaloperating condition / fanless operationYesProtection class IPIP40DesigncompactWidth51 mm (2 in)Height1 kgMaterial / of the enclosureHeavy Duty Cast Aluminum EnclosureHazdoc zapacity of MAC-address table16 Kibyle- of MAC-address table16 Kibyle- of MAC-address table16 Kibyle- of message buffer / maximum1 Mbyleswitch-latency period8 μs- on bead-off-line-blockingYesProduct functions / managoment, configurationYesProduct functions / managoment, configurationYes </th <th>Signal-Inputs/outputs</th> <th></th>	Signal-Inputs/outputs	
as alarm relay type of the relay output Change-over (NO/NC) Operating current / of signaling contacts - • at 30 V / maximum 1A Supply voltage, current consumption, power loss DC Type of voltage / 1 / of the supply voltage DC • rated value 24 V • rated value 1032 V Current consummed / 1 / at rated value of supply voltage / max. 9 W Power loss 9 W • maximum 9 W Pomentida ambient conditions - Ambient temperature - • during operating Conformal Coating optional operating condition / fanless operation Protection class IP IP40 Design, dimensions and weight - Design, dimensions and weight - Design, dimensions and weight - Net weight 1 kg Material / of the enclosure - · add consure - · add consure - · add consure - · add consure - Product proporties, functions, co		Ontional Form-C contact relay (SP CO)
type of the relay output Change-over (NO/NC) Operating current / of signaling contacts - • at DC - • at DC - • at 30 V / maximum 1A Supply voltage, current consumption, power DC Supply voltage / 1 / of the supply voltage DC Supply voltage / 1 / of the supply voltage DC Supply voltage / 1 / of the supply voltage DC Current consumed / 1 / at rated value of supply voltage / max. 032 V Current consumed / 1 / at rated value of supply voltage / max. 9W Permitted ambient conditions - Ambient temperature - • during operating 20+60 °C Coating conformal Coating optional operating condition / fanless operation Yes Protection class IP IP40 Design compact Width 51 mm (2 in) Height 114 mm (4.5 in) Design compact Width 51 mm (2 in) Height 14 mm (4.5 in) So mm DIN rail mounting Yes<	r ciuy design	· · · · · · ·
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DesigncompactWidth51 mm (2 in)Height114 mm (4.5 in)Depth89 mm (3.5 in)Net weight1 kgMaterial / of the enclosureHeavy Duty Cast Aluminum Enclosure HazLoc RatedType of mounting • 35 mm DIN rail mountingYesProduct properties, functions, components / generalIf Kibyte• of MAC-address table16 Kibyte• of message buffer / maximum11 Mibyteswitch-latency period8 μstransfer rate / of the switch5.2 Gbit/snumber of priority channels4product characteristicYes• no head-off-line-blockingYesProduct functions / management, configurationYes	Design, dimensions and weight	
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Material / of the enclosureHeavy Duty Cast Aluminum Enclosure HazLoc RatedType of mounting• 35 mm DIN rail mountingYesProduct properties, functions, components / generalmemory capacity• of MAC-address table16 Kibyte• of message buffer / maximum1 Mibyteswitch-latency period8 μstransfer rate / of the switch5.2 Gbit/snumber of priority channels4product characteristicYes• no head-off-line-blockingYes• Switching-Methode Store & ForwardYesProduct functions / management, configurationInterfunctions / management, configurationProduct functionInterfunction	Depth	89 mm (3.5 in)
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• 35 mm DIN rail mountingYesProduct properties, functions, components / generalImage: Second	Material / of the enclosure	
Product properties, functions, components / generalmemory capacity• of MAC-address table• of MAC-address table• of message buffer / maximum1 Mibyteswitch-latency period8 μstransfer rate / of the switch5.2 Gbit/snumber of priority channels4product characteristic• no head-off-line-blocking• Switching-Methode Store & ForwardProduct functions / management, configurationProduct function	Type of mounting	
generalImage: constraint of the second s	35 mm DIN rail mounting	Yes
 of MAC-address table of message buffer / maximum 16 Kibyte of message buffer / maximum 1 Mibyte switch-latency period 8 µs transfer rate / of the switch 5.2 Gbit/s number of priority channels product characteristic no head-off-line-blocking Switching-Methode Store & Forward Yes Product functions / management, configuration Product function 		
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switch-latency period 8 µs transfer rate / of the switch 5.2 Gbit/s number of priority channels 4 product characteristic • no head-off-line-blocking Yes • Switching-Methode Store & Forward Yes Product functions / management, configuration	of MAC-address table	16 Kibyte
transfer rate / of the switch 5.2 Gbit/s 5.2 Gbit/s 4. 5.2 Gbit/s	 of message buffer / maximum 	1 Mibyte
number of priority channels4product characteristic-• no head-off-line-blockingYes• Switching-Methode Store & ForwardYesProduct functions / management, configuration-Product functions / management, configuration-Product functions / management, configuration-Product functions / management, configuration-Product function-	switch-latency period	8 µs
product characteristicImage: Sector and S	transfer rate / of the switch	5.2 Gbit/s
 no head-off-line-blocking Switching-Methode Store & Forward Product functions / management, configuration Product function 	number of priority channels	4
Switching-Methode Store & Forward Yes Product functions / management, configuration Product function	product characteristic	
Product functions / management, configuration Product function	no head-off-line-blocking	Yes
configuration Product function	Switching-Methode Store & Forward	Yes
Product function	Product functions / management,	
• CLI Yes		
	• 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-MB
 by SNMP√2-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	14094
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	56 hit
• at SSL	56 bit
• at RSA	1024 bit
product function / port-rate-limiting	
adjustable port-rate-limitation	128 kbit/s…8 Mbit/s
Product functions / Time	
product function	No
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
	Yes

 according to IEEE 802.1Q-VLAN tagging 	Yes
 according to IEEE 802.1Q-VEAN tagging according to IEEE 802.1Q-2005 (formerly 	Yes
IEEE 802.1s) MSTP	
 according to IEEE 802.1w-RRST 	Yes
5	Yes
 according to IEEE 802.1x-port based Network Access Control 	163
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
• 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	
 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
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