


- Product information
- Entries
- Technical Data
- Modification Manual
- Successor product

Product-type designation	RUGGEDCOM i803
<p>Product description</p> <div style="border: 1px solid gray; height: 200px; width: 100%; display: flex; align-items: center; justify-content: center;">  </div>	<p>Compact Managed Industrial Ethernet Switch up to 3 Fiber Optics, 128-bit Encryption</p> <p>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</p>
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	7
<ul style="list-style-type: none"> • remark 	4 x 10/100TX + 1 x 100FX
number of electrical/optical connections / for gigabit Ethernet / maximum	2
Number of electrical connections	
<ul style="list-style-type: none"> • for network components or terminal equipment / maximum 	4
<ul style="list-style-type: none"> • for gigabit Ethernet / maximum 	2
<ul style="list-style-type: none"> • for operator console 	1
<ul style="list-style-type: none"> • for management purposes 	0
Design of electrical connection	
<ul style="list-style-type: none"> • for operator console 	RS232
<ul style="list-style-type: none"> • for signaling contact 	3-pole terminal block, screwable
<ul style="list-style-type: none"> • for power supply 	5-pole terminal block, screwable
Number of optical connections / for network components or terminal equipment / maximum	3
Range / at the optical interface / depending on the	2...20 km

optical fiber used	
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	Changeover contact
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 / 1 / of 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
Mounting type	
<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 	16 Kibyte
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	
• 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	
<ul style="list-style-type: none"> • PPP 	Yes
Product functions / Redundancy	
Product function	
<ul style="list-style-type: none"> • redundancy procedure STP 	Yes
<ul style="list-style-type: none"> • redundancy procedure RSTP 	Yes
<ul style="list-style-type: none"> • redundancy procedure MSTP 	Yes
<ul style="list-style-type: none"> • eRSTP 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • STP 	Yes
<ul style="list-style-type: none"> • RSTP 	Yes
<ul style="list-style-type: none"> • MSTP 	Yes
Product functions / Security	
product function	
<ul style="list-style-type: none"> • IEEE 802.1x (radius) 	Yes
<ul style="list-style-type: none"> • RADIUS client 	Yes
protocol / is supported	
<ul style="list-style-type: none"> • RADIUS 	Yes
<ul style="list-style-type: none"> • TACACS+ 	Yes
<ul style="list-style-type: none"> • SSL 	Yes
key length	
<ul style="list-style-type: none"> • at SSL 	56 bit
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • SNTP-client 	Yes
<ul style="list-style-type: none"> • SNTP-server 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • SNTP 	Yes
Standards, specifications, approvals	
Standard	
<ul style="list-style-type: none"> • for EMC 	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
<ul style="list-style-type: none"> • for hazardous zone 	ATEX Zone 2 (IEC/EN 60079-15)
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • 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
• 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
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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
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Further Information / Internet Links	
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Internet-Link	
• to website: Industry Mall/RUGGEDCOM-Selector	http://ruggedcom-selector.automation.siemens.com
• to website: Industry Mall	http://www.siemens.com/industrial-controls/mall
• to website: Selector for cables and connectors	http://www.siemens.com/snst

- to website: Siemens RUGGEDCOM <http://siemens.com/ruggedcom>
- to website: Industrial communication <http://www.siemens.com/simatic-net>
- to website: Information and Download Center <http://www.siemens.com/automation/net/catalog>
- to website: Image database <http://automation.siemens.com/bilddb>
- to website: CAx Download Manager <http://www.siemens.com/cax>
- to website: Industry Online Support <http://support.automation.siemens.com>

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Jul 7, 2014

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