



Figure similar

The RUGGEDCOM i802 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: 6x 10/100Tx + 1x 100FX or 2x 100FX or 2x 1000LX or 2x 10/100/1000Tx

product type designation	RUGGEDCOM i802
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
number of ports / maximum	8; 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	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	

<ul style="list-style-type: none"> • 35 mm top hat DIN rail mounting 	Yes
product features, product functions, product components / general	
storage capacity	
<ul style="list-style-type: none"> • of the MAC-address table 	16 Kibyte
<ul style="list-style-type: none"> • of message buffer / maximum 	128 Kibyte
switch latency period	4 µs
transfer rate / of the switch	7.6 Gbit/s
number of priority channels	4
product feature	
<ul style="list-style-type: none"> • no head-off-line-blocking 	Yes
<ul style="list-style-type: none"> • Store & Forward switching method 	Yes
product functions / management, configuration, engineering	
product function	
<ul style="list-style-type: none"> • CLI 	Yes
<ul style="list-style-type: none"> • web-based management 	Yes
<ul style="list-style-type: none"> • MIB support 	Yes
<ul style="list-style-type: none"> • RMON 	Yes
product function / switch-managed	Yes
protocol / is supported	
<ul style="list-style-type: none"> • Telnet 	Yes
<ul style="list-style-type: none"> • HTTP 	Yes
<ul style="list-style-type: none"> • HTTPS 	Yes
<ul style="list-style-type: none"> • TFTP 	Yes
<ul style="list-style-type: none"> • SNMP v1 	Yes
<ul style="list-style-type: none"> • SNMP v2 	No
<ul style="list-style-type: none"> • SNMP v2c 	Yes
<ul style="list-style-type: none"> • SNMP v3 	Yes
<ul style="list-style-type: none"> • IGMP (snooping/querier) 	Yes
number of groups / at IGMP	256
product function	
<ul style="list-style-type: none"> • for MIB support / by BRIDGE-MIB 	RFC4188
<ul style="list-style-type: none"> • for MIB support / by IF-MIB 	RFC2863
<ul style="list-style-type: none"> • for MIB support / by RMON-MIB 	RFC2819
<ul style="list-style-type: none"> • for MIB support / by RSTP-MIB 	RFC4318
<ul style="list-style-type: none"> • for MIB support / by SNMPv2-MIB 	RFC1907
<ul style="list-style-type: none"> • for MIB support / by SNMPv2-SMI 	RFC2578
<ul style="list-style-type: none"> • for MIB support / by SNMPv2-TC 	RFC2579
<ul style="list-style-type: none"> • for MIB support / by TCP-MIB 	RFC2012
<ul style="list-style-type: none"> • for MIB support / by UDP-MIB 	RFC2013
product functions / VLAN	
product function	
<ul style="list-style-type: none"> • VLAN - port based 	Yes
number of VLANs / maximum	255
VLAN identification number	1 ... 4094
protocol / is supported / GVRP	Yes
product functions / DHCP	
product function	
<ul style="list-style-type: none"> • DHCP client 	Yes
<ul style="list-style-type: none"> • DHCP Option 82 	Yes
<ul style="list-style-type: none"> • DHCP Option 66 	No
<ul style="list-style-type: none"> • 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	
• 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	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)	Yes
MSTP	
• 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
- RFC894-IP over Ethernet
- RFC1112-IGMPv1
- RFC1519-CIDR
- RFC1541-DHCP (client)
- RFC2030-SNTP
- RFC2068-HTTP
- RFC2236-IGMPv2
- RFC2284-EAP
- RFC2475-Differentiated Service
- RFC2865-RADIUS
- RFC3414-SNMPv3-USM
- RFC3415-SNMPv3-VACM

Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes

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

<http://ruggedcom-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

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Approvals / Certificates

General Product Approval

For use in hazardous locations



[Manufacturer Declaration](#)



EG-Konf.

[KC](#)



Test Certificates

other

Dangerous Good



[inspection certificate](#)

[Dangerous Goods Information](#)

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