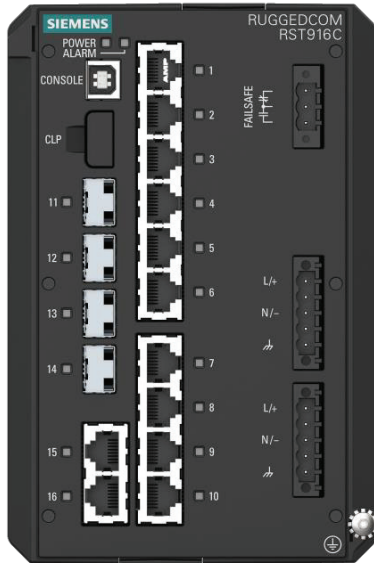


RST916C DATA SHEET



RST916C 6GK6491-6CD00...

RUGGEDCOM RST916C is a 16 port industrially hardened, fully managed 10G Ethernet switch featuring integrated IEEE 1588 support for use in harsh industrial environments. The product has 4x 1/10Gbit/s SFP+ slots and 12x 10/100/1000Mbit/s RJ45 ports . -40°C to +75°C operating temperature (fanless).

Product type designation	RUGGEDCOM RST916C
Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s
Number of ports / maximum	16
Interfaces / for communication / Integrated	
Number of electrical connections • for network components or terminal equipment	16
Number of 10/100/1000 Mbit/s RJ45 ports / Integrated	12
Number of electrical connections • for SFP+	4; Compatible with SFP (1000BASE -X) and SFP+ (10GBASE -X)
Interfaces / other	
Number of electrical connections • for operator console • for signaling contact • for power supply	1 1 2
Type of electrical connection • for operator console • for management purposes • for signaling contact • for power supply	USB USB 3-pole terminal block, screwable 5-pole terminal block, screwable
design of the removable storage • CLP	Yes
Signal inputs/outputs	

Relay design	Form-C contact relay (SP C O)
Type of relay output	Changeover contact
Number of relay outputs / as CO contact	1
Operating voltage / of the signaling contacts <ul style="list-style-type: none"> • at AC / maximum • at DC / maximum 	440 V 300 V
Operating current / of the signaling contacts <ul style="list-style-type: none"> • at AC / at 440 V / maximum • at DC / at 300 V / maximum 	0.12 A 0.12 A

Supply voltage, current consumption, power loss

Product options / wide range power supply	Yes
Type of voltage supply / redundant power input	Yes
Supply voltage / 1 / Rated value <ul style="list-style-type: none"> • Supply voltage / 1 / rated value • Type of voltage / 1 / of the supply voltage 	10 ... 60 V DC
Supply voltage / 2 / Rated value <ul style="list-style-type: none"> • Supply voltage / 2 / rated value • Type of voltage / 2 / of the supply voltage 	88 ... 300 V DC
Supply voltage / 3 / Rated value <ul style="list-style-type: none"> • Supply voltage / 3 / rated value • Type of voltage / 3 / of the supply voltage 	85 ... 264 V AC

Ambient conditions

Ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport 	-40 ... +75 °C -40 ... +85 °C -40 ... +85 °C
Relative humidity <ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / maximum 	95 %
Operating condition / fanless operation	Yes
Protection class IP	IP40

Design, dimensions and weight

Design	compact
Width	116 mm
Height	177 mm
Depth	163 mm
Net weight	3.75 kg
Product feature / conformal coating	Yes; optional
Material / of the enclosure	Cast Aluminum Enclosure
Mounting type <ul style="list-style-type: none"> • 19-inch installation • 35 mm DIN rail mounting • wall mounting 	No Yes Yes

Product features, product functions, product components / general

Number of automatically learnable MAC addresses	16384
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Storage capacity	2000 Kibyte
<ul style="list-style-type: none"> • of message buffer / maximum 	
Switch latency period	3 μ s
Transfer rate / of the switch	58 Gbit/s
Number of priority channels	8
Number of QoS queues / per port	4
Size per QoS queues	1536 frames
Product function / QoS according to IEEE 802.1Q	Yes
Product feature	
<ul style="list-style-type: none"> • Store & Forward switching method 	Yes
<ul style="list-style-type: none"> • Zero-Packet-Loss technology 	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 functions / VLAN	
Product function	
<ul style="list-style-type: none"> • VLAN - port based 	Yes
Number of VLANs / maximum	255
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 Option66 	No
<ul style="list-style-type: none"> • DHCP Option67 	No
Product functions / redundancy	
Product function	
<ul style="list-style-type: none"> • High Speed Redundancy Protocol (HRP) 	No

Product function	
<ul style="list-style-type: none"> ● redundancy procedure STP ● redundancy procedure RSTP ● redundancy procedure MSTP ● eRSTP 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
Protocol / is supported	
<ul style="list-style-type: none"> ● STP ● RSTP ● MSTP 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
Product functions /security	
Product function	
<ul style="list-style-type: none"> ● IEEE 802.1x (radius) 	<p>Yes</p>
Protocol / is supported	
<ul style="list-style-type: none"> ● RADIUS ● TACACS+ ● SSH ● SS L 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
Key length	
<ul style="list-style-type: none"> ● with SS L ● with RSA 	<p>256 bit</p> <p>3072 bit</p>
Product function/ port-rate limiting	<p>Yes</p>
Product functions /time	
Product function	
<ul style="list-style-type: none"> ● NTP client ● SNTP client ● SNTP server ● IEEE 1588v2 transparent forwarding 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
Protocol / is supported	
<ul style="list-style-type: none"> ● SNTP 	<p>Yes</p>
Product function/ hardware-supported timestamp at all ports	<p>Yes</p>
Standards, specifications, approvals	
Standard	
<ul style="list-style-type: none"> ● for safety / from CSA and UL 	<p>cCSAus (Compliant with CSA C22.2 No. 60950, UL60950, EN60950) ; Planned</p>
Standards, specifications, approvals / CE	
Certificate of suitability / CE marking	<p>Yes ; Planned</p>
Standard	
<ul style="list-style-type: none"> ● for EMC 	<p>FCC P art 15 (Class A), EN5502 2 (CISPR22 Class A) ; Planned</p>
Standards, specifications, approvals / other	
Laser protection class	<p>Complies with 21 CFR chapter 1, subchapter J ; Planned</p>
Certificate of suitability	

- IEC 61850 -3
- IEEE 1613

Yes ; Planned

Yes ; Planned

Further information / Internet - Links

Internet-Link

- to website: Industry Mall/RUGGEDCOM selector <http://ruggedcomselector.automation.siemens.com>
- to website: Siemens RUGGEDCOM <http://siemens.com/ruggedcom>
- to website: Selector for cables and connectors <http://www.siemens.com/snst>
- to website: Industrial communication <http://www.siemens.com/simaticnet>
- to website: Industry Mall <https://mall.industry.siemens.com>
- to website: Information and Download Center <http://www.siemens.com/industry/infocenter>
- to website: Image database <http://automation.siemens.com/bilddb>
- to website: CAx Download Manager <http://www.siemens.com/cax>
- to website: Industry Online Support <https://support.industry.siemens.com>

Security information

Security information

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RST916C, HI PS, with DIN mount: 6GK6491-6CD00-1CN0
 RST916C, HI PS, with DIN and panel mount: 6GK6491-6CD00-3CN0
 RST916C, LO PS, with DIN mount: 6GK6491-6CD00-1AN0
 RST916C, LO PS, with DIN and panel mount: 6GK6491-6CD00-3AN0