

product type designation	RSL910NC
	RUGGEDCOM RSL910NC is a 10 port, industrially hardened, fully managed Ethernet switch with 56-bit encryption supporting 2 VDSL2 ports, 2 Gigabit Ethernet SFP ports and 6 Fast Ethernet RJ45 ports. The VDSL2 ports allow LAN segments up to 3 km over telephone grade cable at up to 85 Mbps. . . DIN Rail Mount 24 VDC (10-36 VDC) . Manufacturing Modification: None
transfer rate	
transfer rate / for Industrial Ethernet	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
transfer rate	
• with EoVDSL / maximum	85 Mbit/s
interfaces	
number of electrical/optical connections / for network components or terminal equipment / maximum	10; 6 fast Ethernet ports (10/100BaseTX), 2 SFP ports, 2 VDSL2 ports
number of electrical connections	
• for network components or terminal equipment / maximum	8
• for EoVDSL / maximum	2
• for management purposes	2
type of electrical connection	
• for power supply	terminal block
number of optical interfaces / for network components or terminal equipment / maximum	2
range / at the optical interface / depending on the optical fiber used	
• minimum	0.5 km
• maximum	90 km
signal inputs/outputs	
operational current / of the signaling contacts / at DC / at 30 V / maximum	2 A
relay design	Form-C contact relay (CO, change over)
supply voltage, current consumption, power loss	
product options / wide range power supply	Yes
power loss [W]	
• maximum	13 W
supply voltage / 1 / rated value	24 V
• supply voltage / 1 / rated value	10 ... 36 V
• type of voltage / 1 / of the supply voltage	DC
• consumed current / 1 / at rated supply voltage / maximum	0.525 A
supply voltage / 2 / rated value	48 V
• supply voltage / 2 / rated value	36 ... 72 V
• type of voltage / 2 / of the supply voltage	DC
• consumed current / 2 / at rated supply voltage / maximum	0.258 A
supply voltage / 3 / rated value	
• supply voltage / 3 / rated value	88 ... 300 V
• type of voltage / 3 / of the supply voltage	DC
• consumed current / 3 / at rated supply voltage / maximum	0.107 A
supply voltage / 4 / rated value	
• supply voltage / 4 / rated value	85 ... 264 V
• type of voltage / 4 / of the supply voltage	AC
ambient conditions	
ambient temperature	
• during operation	-40 ... +85 °C
• note	A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
coating	conformal coating optional

operating condition / fanless operation	Yes
protection class IP	IP30
design, dimensions and weights	
depth	124.7 mm
height	187.96 mm
width	66.15 mm
net weight	1134 g
material / of the enclosure	20 AWG galvanized steel enclosure
fastening method	
• 35 mm top hat DIN rail mounting	Yes
• wall mounting	Yes
product features, product functions, product components / general	
product function	
• switch-managed	Yes
• automatic selection of the fastest transfer rate	Yes
• switchover master or slave with software	Yes
protocol / is supported	
• TFTP	Yes
• IGMP (snooping/querier)	Yes
number of groups / at IGMP	256
range / at VDSL interface / maximum	3.3 km
transmission mode / FDM	Yes
storage capacity	
• of message buffer / maximum	1 Mibyte
switch latency period	8 µs
transfer rate / of the switch	1.8 Gbit/s
number of priority channels	4
product feature / Store & Forward switching method	Yes
product functions / management, configuration, engineering	
product function	
• CLI	Yes
• web-based management	Yes
• RMON	Yes
• MIB support	Yes
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
product functions / diagnostics	
protocol / is supported	
• SNMP v1	Yes
• SNMP v2c	Yes
• SNMP v3	Yes
product functions / DHCP	
product function	
• DHCP client	Yes
product functions / VLAN	
number of VLANs / maximum	255
product function / VLAN - port based	Yes
protocol / is supported / GVRP	Yes
product functions / redundancy	
product function	
• redundancy procedure MSTP	Yes
• redundancy procedure RSTP	Yes
• eRSTP	Yes
protocol / is supported / RSTP	Yes
product functions / security	
product function	
• port-rate-limiting	Yes
adjustable port-rate-limitation	128 kbit/s ... 8 Mbit/s

product function	
<ul style="list-style-type: none"> IEEE 802.1x (radius) 	Yes
protocol / is supported	
<ul style="list-style-type: none"> SSH 	No
<ul style="list-style-type: none"> SSL 	Yes
<ul style="list-style-type: none"> TACACS+ 	Yes
key length	
<ul style="list-style-type: none"> with RSA 	1024 bit
product functions / time	
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 safety / from CSA and UL 	cCSAus (CSA C22.2 No. 60950, UL 60950, EN60950)
laser protection class	21 CFR Chapter 1, Subchapter J
certificate of suitability	
<ul style="list-style-type: none"> CE marking 	Yes
<ul style="list-style-type: none"> relating to NEMA 	TS 2
<ul style="list-style-type: none"> railway application in accordance with EN 50121-3-2 	Yes
<ul style="list-style-type: none"> railway application in accordance with EN 50121-4 	Yes
<ul style="list-style-type: none"> IEC 61850-3 	No
<ul style="list-style-type: none"> IEEE 1613 	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"> 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
<ul style="list-style-type: none"> RFC1541-DHCP (client) 	Yes
<ul style="list-style-type: none"> according to IEEE 802.3-10BaseT 	Yes
<ul style="list-style-type: none"> according to IEEE 802.3u-100BaseTX 	Yes
<ul style="list-style-type: none"> according to IEEE 802.3u-100BaseFX 	Yes
<ul style="list-style-type: none"> according to IEEE 802.3x-Flow Control 	Yes
<ul style="list-style-type: none"> according to IEEE 802.3z-1000BaseLX 	Yes
<ul style="list-style-type: none"> according to IEEE 802.3ab-1000BaseT 	Yes
<ul style="list-style-type: none"> according to IEEE 802.3ad-Link Aggregation 	Yes
<ul style="list-style-type: none"> according to IEEE 802.1d-MAC Bridges 	Yes
<ul style="list-style-type: none"> according to IEEE 802.1d-STP 	Yes
<ul style="list-style-type: none"> 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 802.1x-port based Network Access Control 	Yes
<ul style="list-style-type: none"> according to IEEE 802.1D-2004-RSTP 	Yes
reference code	
<ul style="list-style-type: none"> according to IEC 81346-2:2019 	KED

standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> total 	630.27 kg
<ul style="list-style-type: none"> during manufacturing 	82.01 kg
<ul style="list-style-type: none"> during operation 	547.91 kg
<ul style="list-style-type: none"> after end of life 	0.35 kg

further information / internet links




internet link	
<ul style="list-style-type: none"> to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> to website: Industrial communication 	https://www.siemens.com/simatic-net
<ul style="list-style-type: none"> to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> to website: Image database 	https://www.automation.siemens.com/bilddb
<ul style="list-style-type: none"> to website: CAx-Download-Manager 	https://www.siemens.com/cax
<ul style="list-style-type: none"> to website: Industry Online Support 	https://support.industry.siemens.com

security information

security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>
----------------------	---

Approvals / Certificates

General Product Approval	other	Dangerous goods	Environment
--------------------------	-------	-----------------	-------------

Manufacturer Declaration			inspection certificate		Dangerous goods information
--	---	---	--	---	---

last modified:

1/23/2025 