

product type designation	<b>RSL910</b>
	RUGGEDCOM RSL910 is a 10 port, industrially hardened, fully managed Ethernet switch with 128-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. . . Panel Mount HI (88-300 VDC or 85-264 VAC) . Manufacturing Modification: None
<b>transfer rate</b>	
transfer rate / for Industrial Ethernet	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
transfer rate	
<ul style="list-style-type: none"> <li>with EoVDSL / maximum</li> </ul>	85 Mbit/s
<b>interfaces</b>	
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	
<ul style="list-style-type: none"> <li>for network components or terminal equipment / maximum</li> </ul>	8
<ul style="list-style-type: none"> <li>for EoVDSL / maximum</li> </ul>	2
<ul style="list-style-type: none"> <li>for management purposes</li> </ul>	2
type of electrical connection	
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	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	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	0.5 km
<ul style="list-style-type: none"> <li>maximum</li> </ul>	90 km
<b>signal inputs/outputs</b>	
operational current / of the signaling contacts / at DC / at 30 V / maximum	2 A
relay design	Form-C contact relay (CO, change over)
<b>supply voltage, current consumption, power loss</b>	
product options / wide range power supply	Yes
power loss [W]	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	13 W
<b>supply voltage / 1 / rated value</b>	24 V
<ul style="list-style-type: none"> <li>supply voltage / 1 / rated value</li> </ul>	10 ... 36 V
<ul style="list-style-type: none"> <li>type of voltage / 1 / of the supply voltage</li> </ul>	DC
<ul style="list-style-type: none"> <li>consumed current / 1 / at rated supply voltage / maximum</li> </ul>	0.525 A
<b>supply voltage / 2 / rated value</b>	48 V
<ul style="list-style-type: none"> <li>supply voltage / 2 / rated value</li> </ul>	36 ... 72 V
<ul style="list-style-type: none"> <li>type of voltage / 2 / of the supply voltage</li> </ul>	DC
<ul style="list-style-type: none"> <li>consumed current / 2 / at rated supply voltage / maximum</li> </ul>	0.258 A
<b>supply voltage / 3 / rated value</b>	
<ul style="list-style-type: none"> <li>supply voltage / 3 / rated value</li> </ul>	88 ... 300 V
<ul style="list-style-type: none"> <li>type of voltage / 3 / of the supply voltage</li> </ul>	DC
<ul style="list-style-type: none"> <li>consumed current / 3 / at rated supply voltage / maximum</li> </ul>	0.107 A
<b>supply voltage / 4 / rated value</b>	
<ul style="list-style-type: none"> <li>supply voltage / 4 / rated value</li> </ul>	85 ... 264 V
<ul style="list-style-type: none"> <li>type of voltage / 4 / of the supply voltage</li> </ul>	AC
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>note</li> </ul>	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
<b>design, dimensions and weights</b>	
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
<b>product features, product functions, product components / general</b>	
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
<b>product functions / management, configuration, engineering</b>	
product function	
• CLI	Yes
• web-based management	Yes
• RMON	Yes
• MIB support	Yes
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
<b>product functions / diagnostics</b>	
protocol / is supported	
• SNMP v1	Yes
• SNMP v2c	Yes
• SNMP v3	Yes
<b>product functions / DHCP</b>	
product function	
• DHCP client	Yes
<b>product functions / VLAN</b>	
number of VLANs / maximum	255
product function / VLAN - port based	Yes
protocol / is supported / GVRP	Yes
<b>product functions / redundancy</b>	
product function	
• redundancy procedure MSTP	Yes
• redundancy procedure RSTP	Yes
• eRSTP	Yes
protocol / is supported / RSTP	Yes
<b>product functions / security</b>	
product function	
• port-rate-limiting	Yes
adjustable port-rate-limitation	128 kbit/s ... 8 Mbit/s

product function	
<ul style="list-style-type: none"> <li>IEEE 802.1x (radius)</li> </ul>	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>SSH</li> </ul>	Yes
<ul style="list-style-type: none"> <li>SSL</li> </ul>	Yes
<ul style="list-style-type: none"> <li>TACACS+</li> </ul>	Yes
key length	
<ul style="list-style-type: none"> <li>with RSA</li> </ul>	1024 bit
<b>product functions / time</b>	
protocol / is supported	
<ul style="list-style-type: none"> <li>SNTP</li> </ul>	Yes
<b>standards, specifications, approvals</b>	
standard	
<ul style="list-style-type: none"> <li>for EMC</li> </ul>	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
<ul style="list-style-type: none"> <li>for safety / from CSA and UL</li> </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"> <li>CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>relating to NEMA</li> </ul>	TS 2
<ul style="list-style-type: none"> <li>railway application in accordance with EN 50121-3-2</li> </ul>	Yes
<ul style="list-style-type: none"> <li>railway application in accordance with EN 50121-4</li> </ul>	Yes
<ul style="list-style-type: none"> <li>IEC 61850-3</li> </ul>	No
<ul style="list-style-type: none"> <li>IEEE 1613</li> </ul>	Yes
product conformity	
<ul style="list-style-type: none"> <li>RFC768-UDP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC783-TFTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC791-IP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC792-ICMP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC793-TCP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC826-ARP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC854-Telnet</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC894-IP over Ethernet</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC1112-IGMPv1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC1519-CIDR</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC2030-SNTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC2068-HTTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC2236-IGMPv2</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC2284-EAP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC2475-Differentiated Service</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC2865-RADIUS</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC3414-SNMPv3-USM</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC3415-SNMPv3-VACM</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RFC1541-DHCP (client)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.3-10BaseT</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.3u-100BaseTX</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.3u-100BaseFX</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.3x-Flow Control</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.3z-1000BaseLX</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.3ab-1000BaseT</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.3ad-Link Aggregation</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.1d-MAC Bridges</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.1d-STP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.1p-class of service</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.1Q-VLAN tagging</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.1Q-2005 (formerly IEEE 802.1s) MSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.1x-port based Network Access Control</li> </ul>	Yes
<ul style="list-style-type: none"> <li>according to IEEE 802.1D-2004-RSTP</li> </ul>	Yes
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes

Global Warming Potential [CO2 eq]	
<ul style="list-style-type: none"> <li>• total</li> <li>• during manufacturing</li> <li>• during operation</li> <li>• after end of life</li> </ul>	<p>630.27 kg</p> <p>82.01 kg</p> <p>547.91 kg</p> <p>0.35 kg</p>


**further information / internet links**

internet link	
<ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to website: Industrial communication</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="https://support.industry.siemens.com/cs/ww/en/view/109766373">https://support.industry.siemens.com/cs/ww/en/view/109766373</a></p> <p><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a></p> <p><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a></p> <p><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a></p> <p><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>

**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 <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. 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 <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>
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**Approvals / Certificates**

General Product Approval	other	Dangerous goods	Environment
<a href="#">Manufacturer Declaration</a> 	 EG-Konf.	<a href="#">inspection certificate</a> <a href="#">Dangerous goods information</a>	

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