

Product type designation

**SCALANCE W722-1 RJ45**

IWLAN CLIENT, SCALANCE W722-1 RJ45, FOR USE IN USA ONLY, 1 RADIO, 1 R-SMA ANT. CONNECT., IFEATURES (IPCF) IEEE 802.11A/B/G/H/N, 2.4/5GHZ, BRUTTO DATA RATE 150 MBIT/S, 1 X RJ45 (MAX. 100 MBIT/S), 1X24VDC, IP20, PLEASE NOTE NATIONAL APPROVALS. (CERT ID: ELN-W1-RJ-E1) SCOPE OF SUPPLY: MANUALS ON CD ROM, GERMAN / ENGLISH, 1 X TERMINAL BLOCK



**Transmission rate**

Transfer rate	
<ul style="list-style-type: none"> <li>with WLAN / maximum</li> </ul>	150 Mbit/s
<ul style="list-style-type: none"> <li>for Industrial Ethernet</li> </ul>	10 Mbit/s, 100 Mbit/s, 10 Mbit/s, 100 Mbit/s

**Interfaces**

Number of electrical connections	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	1
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	1
<ul style="list-style-type: none"> <li>for redundant voltage supply</li> </ul>	0
Type of electrical connection	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	RJ45 socket
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	3-pole screw terminal
design of the removable storage	
<ul style="list-style-type: none"> <li>C-PLUG</li> </ul>	No
<ul style="list-style-type: none"> <li>KEY-PLUG</li> </ul>	No

**Interfaces / wireless**

Number of radio cards / permanently installed	1
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Number of electrical connections / for external antenna(s)	1
Type of electrical connection / for external antenna(s)	R-SMA (socket)
Product feature / external antenna can be mounted directly on device	Yes

### Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage / 1 <ul style="list-style-type: none"> <li>• from terminal block</li> </ul>	19.2 V
Supply voltage / 2 <ul style="list-style-type: none"> <li>• from terminal block</li> </ul>	28.8 V
Consumed current <ul style="list-style-type: none"> <li>• at DC / at 24 V / typical</li> </ul>	0.15 A
Power loss [W] <ul style="list-style-type: none"> <li>• at DC / at 24 V / typical</li> </ul>	3.6 W

### Permitted ambient conditions

Ambient temperature <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	0 ... 55 °C -40 ... +85 °C -40 ... +85 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W761-1 RJ45 or W72x-1 RJ45 product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.
Protection class IP	IP20

### Design, dimensions and weight

Width	50 mm
Height	114 mm
Depth	74 mm
Width / of the enclosure / without antenna	50 mm
Height / of the enclosure / without antenna	114 mm
Depth / of the enclosure / without antenna	74 mm
Net weight	0.13 kg
Mounting type <ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> <li>• S7-1500 rail mounting</li> <li>• wall mounting</li> </ul>	No No No

### Wireless frequencies

Operating frequency <ul style="list-style-type: none"> <li>• for WLAN in 2.4 GHz frequency band</li> </ul>	2.41 ... 2.48 GHz
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- for WLAN in 5 GHz frequency band

4.9 ... 5.8 GHz

### Product properties, functions, components / general

Product function / Access Point Mode	No
Product function / Client Mode	Yes
Product function	
• Dual Client	No
• iPCF client	Yes
• iPCF-MC Access Point	No
• iPCF-MC client	Yes
Number of iPCF-capable radio modules	1

### Product functions / management, configuration

Number of manageable IP addresses / in client	8
Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• Configuration with STEP 7	Yes
• configuration with STEP 7 in the TIA Portal	Yes
• forced roaming with IWLAN	No
• WDS	No
Protocol / is supported	
• Address Resolution Protocol (ARP)	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	No
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher-level designation/location designation	Yes

### Product functions / Diagnosis

Product function	
• PROFINET IO diagnosis	Yes
• Link Check	No
• connection monitoring IP-Alive	No
• localization via Aeroscout	No
• SysLog	Yes

Protocol / is supported	
<ul style="list-style-type: none"> <li>• SNMP v1</li> <li>• SNMP v2</li> <li>• SNMP v3</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p>
<b>Product functions / VLAN</b>	
Product function	
<ul style="list-style-type: none"> <li>• function VLAN with IWLAN</li> </ul>	No
<b>Product functions / DHCP</b>	
Product function	
<ul style="list-style-type: none"> <li>• DHCP client</li> <li>• in Client Mode / DHCP server via LAN</li> </ul>	<p>Yes</p> <p>No</p>
<b>Product functions / Security</b>	
Product function	
<ul style="list-style-type: none"> <li>• ACL - MAC-based</li> <li>• Management security, ACL-IP based</li> <li>• IEEE 802.1x (radius)</li> <li>• NAT/NAPT</li> <li>• access protection according to IEEE802.11i</li> <li>• WPA/WPA2</li> <li>• TKIP/AES</li> </ul>	<p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
Protocol / is supported	
<ul style="list-style-type: none"> <li>• SSH</li> </ul>	Yes
<b>Product functions / Time</b>	
Protocol / is supported	
<ul style="list-style-type: none"> <li>• SNTP</li> <li>• SIMATIC Time</li> </ul>	<p>Yes</p> <p>Yes</p>
<b>Standards, specifications, approvals</b>	
Standard	
<ul style="list-style-type: none"> <li>• for FM</li> <li>• for hazardous zone</li> <li>• for safety / from CSA and UL</li> <li>• for hazardous zone / from CSA and UL</li> </ul>	<p>FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4</p> <p>EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X</p> <p>UL 60950-1 CSA C22.2 No. 60950-1</p> <p>ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC</p>
Certificate of suitability	
<ul style="list-style-type: none"> <li>• EC declaration of conformity</li> <li>• CE marking</li> <li>• C-Tick</li> <li>• CCC</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p>

<ul style="list-style-type: none"> <li>• E1 approval</li> </ul>	No
<ul style="list-style-type: none"> <li>• Railway application in accordance with EN 50155</li> </ul>	No
<ul style="list-style-type: none"> <li>• NEMA TS2</li> </ul>	No
<ul style="list-style-type: none"> <li>• IEC 61375</li> </ul>	No
<ul style="list-style-type: none"> <li>• IEC 61850-3</li> </ul>	No
<ul style="list-style-type: none"> <li>• NEMA4X</li> </ul>	No
<ul style="list-style-type: none"> <li>• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	No
<ul style="list-style-type: none"> <li>• Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	No
Standard for wireless communication	
<ul style="list-style-type: none"> <li>• IEEE 802.11a</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11b</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11e</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11g</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11h</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11i</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11n</li> </ul>	Yes
Wireless approval	You will find the current list of countries at: <a href="http://www.siemens.de/funkzulassungen">www.siemens.de/funkzulassungen</a>
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Bureau Veritas (BV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Det Norske Veritas (DNV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Germanische Lloyd (GL)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	No

## Accessories

accessories	24 V DC screw terminal included in scope of delivery
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## Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: TIA Selection Tool</li> </ul>	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>
<ul style="list-style-type: none"> <li>• to the website: IWLAN</li> </ul>	<a href="http://www.siemens.com/iwlan">http://www.siemens.com/iwlan</a>
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>• to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: CAx Download Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

### Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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