

Product type designation

SCALANCE W721-1 RJ45

IWLAN client, SCALANCE W721-1, RJ45, 1 radio, 1 R-SMA antenna port, IEEE 802.11a/b/g/h/n, 2.4/5 GHz, gross data rate 150 Mbit/s, 1x RJ45 max. 100 Mbit/s, 24 V DC, terminal block, IP20, 0... +55°C, WPA2/802.11i/e, observe national approvals! CERT ID: ELN-W1-RJ-E1, scope of delivery: Manuals on CD-ROM, German/English, 1x terminal block; for operation outside of USA/Israel



Transmission rate

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

Interfaces

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

- KEY-PLUG

No

Interfaces / wireless

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

Permitted ambient conditions

Ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport 	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"> • S7-300 rail mounting • S7-1500 rail mounting • 35 mm DIN rail mounting 	No No Yes

- wall mounting

No

Wireless frequencies

Operating frequency

- for WLAN in 2.4 GHz frequency band
- for WLAN in 5 GHz frequency band

2.41 ... 2.48 GHz

4.9 ... 5.8 GHz

Product properties, functions, components / general

Product function / Access Point Mode

No

Product function / Client Mode

Yes

Product function

- iPCF client
- iPCF-MC client

No

No

Product function / iREF

No

Product function / iPRP

No

Product functions / management, configuration

Number of manageable IP addresses / in client

4

Product function

- CLI
- web-based management
- MIB support
- TRAPs via email
- Configuration with STEP 7
- configuration with STEP 7 in the TIA Portal
- WDS

Yes

Yes

Yes

Yes

Yes

Yes

No

Protocol / is supported

- Address Resolution Protocol (ARP)
- ICMP
- Telnet
- HTTP
- HTTPS
- TFTP
- DCP
- LLDP

Yes

Yes

Yes

Yes

Yes

Yes

Yes

No

Identification & maintenance function

- I&M0 - device-specific information
- I&M1 – higher-level designation/location designation

Yes

Yes

Product functions / Diagnosis

Product function

- PROFINET IO diagnosis
- Link Check

No

No

<ul style="list-style-type: none"> • connection monitoring IP-Alive 	No
<ul style="list-style-type: none"> • SysLog 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • SNMP v1 	Yes
<ul style="list-style-type: none"> • SNMP v2 	Yes
<ul style="list-style-type: none"> • SNMP v3 	Yes

Product functions / VLAN

Product function	
<ul style="list-style-type: none"> • function VLAN with IWLAN 	No

Product functions / DHCP

Product function	
<ul style="list-style-type: none"> • DHCP client 	Yes
<ul style="list-style-type: none"> • in Client Mode / DHCP server via LAN 	Yes
<ul style="list-style-type: none"> • DHCP Option 82 	Yes

Product functions / Redundancy

Protocol / is supported	
<ul style="list-style-type: none"> • STP/RSTP 	Yes
<ul style="list-style-type: none"> • MSTP 	Yes
<ul style="list-style-type: none"> • RSTP 	Yes

Product functions / Security

Product function	
<ul style="list-style-type: none"> • ACL - MAC-based 	Yes
<ul style="list-style-type: none"> • Management security, ACL-IP based 	Yes
<ul style="list-style-type: none"> • IEEE 802.1x (radius) 	Yes
<ul style="list-style-type: none"> • NAT/NAPT 	No
<ul style="list-style-type: none"> • access protection according to IEEE802.11i 	Yes
<ul style="list-style-type: none"> • WPA/WPA2 	Yes
<ul style="list-style-type: none"> • TKIP/AES 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • SSH 	Yes
<ul style="list-style-type: none"> • RADIUS 	Yes

Product functions / Time

Protocol / is supported	
<ul style="list-style-type: none"> • NTP 	Yes
<ul style="list-style-type: none"> • SNTP 	Yes
<ul style="list-style-type: none"> • SIMATIC Time 	Yes

Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> • for FM 	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4

<ul style="list-style-type: none"> • for hazardous zone 	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
<ul style="list-style-type: none"> • for safety / from CSA and UL 	UL 60950-1 CSA C22.2 No. 60950-1
Certificate of suitability	
<ul style="list-style-type: none"> • EC declaration of conformity 	Yes
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • C-Tick 	Yes
<ul style="list-style-type: none"> • E1 approval 	No
<ul style="list-style-type: none"> • Railway application in accordance with EN 50155 	No
<ul style="list-style-type: none"> • NEMA TS2 	No
<ul style="list-style-type: none"> • IEC 61375 	No
<ul style="list-style-type: none"> • IEC 61850-3 	No
<ul style="list-style-type: none"> • NEMA4X 	No
<ul style="list-style-type: none"> • Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	No
<ul style="list-style-type: none"> • Power-over-Ethernet according to IEEE802.3at for type 2 	No
Standard for wireless communication	
<ul style="list-style-type: none"> • IEEE 802.11a 	Yes
<ul style="list-style-type: none"> • IEEE 802.11b 	Yes
<ul style="list-style-type: none"> • IEEE 802.11e 	Yes
<ul style="list-style-type: none"> • IEEE 802.11g 	Yes
<ul style="list-style-type: none"> • IEEE 802.11h 	Yes
<ul style="list-style-type: none"> • IEEE 802.11i 	Yes
<ul style="list-style-type: none"> • IEEE 802.11n 	Yes
Wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) 	No
<ul style="list-style-type: none"> • Bureau Veritas (BV) 	No
<ul style="list-style-type: none"> • DNV GL 	No
<ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) 	No
<ul style="list-style-type: none"> • Nippon Kaiji Kyokai (NK) 	No
<ul style="list-style-type: none"> • Polski Rejestr Statkow (PRS) 	No
<ul style="list-style-type: none"> • Royal Institution of Naval Architects (RINA) 	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"> • to website: TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
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- to the website: IWLAN
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/iwlan>
<https://mall.industry.siemens.com>
<http://www.siemens.com/industry/infocenter>
<http://automation.siemens.com/bilddb>
<http://www.siemens.com/cax>
<https://support.industry.siemens.com>

Security information

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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