

Product type designation

SCALANCE W761-1 RJ45

IWLAN Access Point, SCALANCE W761-1 RJ45, 1 radio, 1 R-SMA antenna port, IEEE 802.11a/b/g/h/n, 2.4/5GHz, 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 	150 Mbit/s
<ul style="list-style-type: none"> for Industrial Ethernet 	10, 100 Mbit/s
Transfer rate / for Industrial Ethernet	
<ul style="list-style-type: none"> minimum 	10 Mbit/s
<ul style="list-style-type: none"> maximum 	100 Mbit/s

Interfaces

Number of electrical connections	
<ul style="list-style-type: none"> for network components or terminal equipment 	1
<ul style="list-style-type: none"> for power supply 	1
<ul style="list-style-type: none"> for redundant voltage supply 	0
Type of electrical connection	
<ul style="list-style-type: none"> for network components or terminal equipment 	RJ45 socket
<ul style="list-style-type: none"> for power supply 	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

Yes

Product function / Client Mode

Yes

Number of SSIDs

1

Product function

- iPCF Access Point
- iPCF client
- iPCF-MC Access Point
- iPCF-MC client

No

No

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
- operation with IWLAN controller
- operation with Enterasys WLAN controller
- forced roaming on IP down with IWLAN
- forced roaming on link down with IWLAN
- WDS

Yes

Yes

Yes

Yes

Yes

Yes

No

No

Yes

Yes

Yes

Protocol / is supported

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

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

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
- Link Check
- connection monitoring IP-Alive
- localization via Aeroscout
- SysLog

No

No

No

No

Yes

Protocol / is supported

- SNMP v1
- SNMP v2
- SNMP v3

Yes

Yes

Yes

Product functions / VLAN

Product function

- function VLAN with IWLAN

Yes

Product functions / DHCP

Product function

- DHCP client
- in Client Mode / DHCP server via LAN
- DHCP Option 82

Yes

Yes

Yes

Product functions / Redundancy

Protocol / is supported

- STP/RSTP
- MSTP
- RSTP

Yes

Yes

Yes

Product functions / Security

Product function

- ACL - MAC-based
- Management security, ACL-IP based
- IEEE 802.1x (radius)
- NAT/NAPT
- access protection according to IEEE802.11i
- WPA/WPA2
- TKIP/AES

Yes

Yes

Yes

No

Yes

Yes

Yes

Protocol / is supported

- SSH
- RADIUS

Yes

Yes

Product functions / Time

Protocol / is supported	
• NTP	Yes
• SNTP	Yes
• SIMATIC Time	Yes

Standards, specifications, approvals

Standard	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / from CSA and UL	UL 60950-1 CSA C22.2 No. 60950-1

Certificate of suitability	
• EC declaration of conformity	Yes
• CE marking	Yes
• C-Tick	Yes
• E1 approval	No
• Railway application in accordance with EN 50155	No
• Railway application in accordance with EN 50121-4	No
• NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	No
• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	No
• Power-over-Ethernet according to IEEE802.3at for type 2	No

Standard for wireless communication	
• IEEE 802.11a	Yes
• IEEE 802.11b	Yes
• IEEE 802.11e	Yes
• IEEE 802.11g	Yes
• IEEE 802.11h	Yes
• IEEE 802.11i	Yes
• IEEE 802.11n	Yes

Wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
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Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• Bureau Veritas (BV)	No
• DNV GL	No

- Lloyds Register of Shipping (LRS)
- Nippon Kaiji Kyokai (NK)
- Polski Rejestr Statkow (PRS)
- Royal Institution of Naval Architects (RINA)

No
No
No
No

Accessories

accessories

24 V DC screw terminal included in scope of delivery

Further Information / Internet Links

Internet-Link

- to website: TIA Selection Tool
- 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/tia-selection-tool>

<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

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last modified:

10/30/2018