

product type designation



W761-1 RJ45 (USA)

IWLAN Access Point, SCALANCE W761-1 RJ45, 1 radio, 1 R-SMA antenna port, IEEE 802.11a/b/g/h/n, 2.4/5 GHz, gross data rate 150 Mbps, 1x RJ45 max. 100 Mbps, 24 V DC, joint block, IP20, 0... +55 °C, WPA2/802.11i/e, observe national approvals! CERT ID: ELN-W1-RJ-E1, FCC ID: LYHELN1V1 scope of delivery: manuals on CD-ROM German/English, 1x joint block; only for operation in the USA.

transfer rate

transfer rate	
• with WLAN / maximum	150 Mbit/s
• for Industrial Ethernet	10, 100 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	100 Mbit/s

interfaces

number of electrical connections	
• for network components or terminal equipment	1
• for power supply	1
• for redundant voltage supply	0
type of electrical connection	
• for network components or terminal equipment	RJ45 socket
• for power supply	3-pole screw terminal
design of the removable storage	
• C-PLUG	No
• KEY-PLUG	No

memory

design of the removable storage	
• 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
consumed current	
• at DC / at 24 V / typical	0.15 A
power loss [W]	
• at DC / at 24 V / typical	3.6 W
supply voltage / 1	
• from terminal block	19.2 V
supply voltage / 2	
• from terminal block	28.8 V

ambient conditions

ambient temperature	
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<ul style="list-style-type: none"> • during operation • during storage • during transport 	0 ... 55 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	-40 ... +85 °C
ambient condition / for operation	-40 ... +85 °C
	95 %
protection class IP	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.
	IP20
design, dimensions and weights	
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
fastening method	
<ul style="list-style-type: none"> • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting 	No
	No
	Yes
	No
radio frequencies	
operating frequency	
<ul style="list-style-type: none"> • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band 	2.41 ... 2.48 GHz; depending on the country approvals
	4.9 ... 5.8 GHz; depending on the country approvals
product features, product functions, product components / general	
product function / Access Point Mode	Yes
product function / client Mode	Yes
number of SSIDs	1
product function	
<ul style="list-style-type: none"> • 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, engineering	
number of manageable IP addresses / in client	4
product function	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • Address Resolution Protocol (ARP) • ICMP • Telnet • HTTP • HTTPS • TFTP • DCP • LLDP 	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
identification & maintenance function	
<ul style="list-style-type: none"> • I&M0 - device-specific information • I&M1 – higher level designation/location designation 	Yes
	Yes

product functions / diagnostics

product function	
• PROFINET IO diagnosis	No
• link check	No
• connection monitoring IP-Alive	No
• localization via Aeroscout	No
• SysLog	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes

product functions / VLAN

product function	
• function VLAN with IWLAN	Yes

product functions / DHCP

product function	
• DHCP client	Yes
• DHCP server	Yes
• DHCP Option 82	Yes

product functions / redundancy

protocol / is supported	
• STP/RSTP	Yes
• MSTP	Yes
• RSTP	Yes

product functions / security

product function	
• ACL - MAC-based	Yes
• management security, ACL-IP based	Yes
• IEEE 802.1x (radius)	Yes
• NAT/NAPT	Yes
• access protection according to IEEE802.11i	Yes
• WPA/WPA2	Yes
• TKIP/AES	Yes
protocol / is supported	
• SSH	Yes
• RADIUS	Yes

product functions / time

protocol / is supported	
• NTP	Yes
• SNTP	Yes
• SIMATIC time synchronization (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 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

<ul style="list-style-type: none"> • IEEE 802.11b • IEEE 802.11e • IEEE 802.11g • IEEE 802.11h • IEEE 802.11i • IEEE 802.11n 	Yes
wireless approval	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	You will find the current list of countries at: www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classification	
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • DNV GL • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA) 	No
	No
	No
	No
	No
	No
	No
	No
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
accessories	
accessories	24 V DC screw terminal included in scope of delivery
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> • to website: TIA Selection Tool • to web page: selection aid 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/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	
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