

product type designation



W774-1 RJ45

IWLAN Access Point, SCALANCE W774-1 RJ45, 1 radio, 2 R-SMA antenna port, iFeatures support via KEY-PLUG, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross data rate 300 Mbit/s, 2x RJ45 max. 100 Mbit/s, PoE integrated 2-port switch, redundant 24 V DC, joint block, IP30, -20... 60 °C, plug slot WPA2/802.11i/e, observe national approvals! CERT ID: MSN-W1-RJ-E2, scope of delivery: Manuals on CD-ROM, German/English, 1x joint block; for operation outside of USA/Israel .

transfer rate

transfer rate

- with WLAN / maximum
- for Industrial Ethernet

300 Mbit/s
10, 100 Mbit/s

transfer rate / for Industrial Ethernet

- minimum
- maximum

10 Mbit/s
100 Mbit/s

interfaces

number of electrical connections

- for network components or terminal equipment
- for power supply
- for redundant voltage supply

2
1
1

type of electrical connection

- for network components or terminal equipment
- for power supply

RJ45 socket
4-pole screw terminal, PoE

design of the removable storage

- C-PLUG
- KEY-PLUG

Yes
Yes

memory

design of the removable storage

- C-PLUG
- KEY-PLUG

Yes
Yes

interfaces / wireless

number of radio cards / permanently installed

1

transmission mode / for multiple input multiple output (MIMO)

2x2

number of spatial streams

2

number of electrical connections / for external antenna(s)

2

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

- from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af

48 V

consumed current

- at DC / at 24 V / typical
- with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical

0.25 A
0.125 A

power loss [W]	
<ul style="list-style-type: none"> at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	6 W 6 W
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
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation during storage during transport 	-20 ... +60 °C -40 ... +85 °C -40 ... +85 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	97 %
ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W774-1 RJ45 or W734-1 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	IP30
design, dimensions and weights	
width	26 mm
height	156 mm
depth	127 mm
width / of the enclosure / without antenna	26 mm
height / of the enclosure / without antenna	147 mm
depth / of the enclosure / without antenna	127 mm
net weight	0.52 kg
fastening method	wall mounting only if flat mounted
<ul style="list-style-type: none"> S7-300 rail mounting S7-1500 rail mounting 35 mm top hat DIN rail mounting wall mounting 	Yes Yes Yes Yes
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	4
product function	
<ul style="list-style-type: none"> iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client 	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'
number of iPCF-capable radio modules	1
product function / iREF	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
number of iREF-capable radio modules	1
product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
product functions / management, configuration, engineering	
number of manageable IP addresses / in client	8
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 	Yes Yes Yes Yes Yes Yes No No Yes Yes

<ul style="list-style-type: none"> • WDS 	Yes	
protocol / is supported		
<ul style="list-style-type: none"> • Address Resolution Protocol (ARP) 	Yes	
<ul style="list-style-type: none"> • ICMP 	Yes	
<ul style="list-style-type: none"> • Telnet 	Yes	
<ul style="list-style-type: none"> • HTTP 	Yes	
<ul style="list-style-type: none"> • HTTPS 	Yes	
<ul style="list-style-type: none"> • TFTP 	Yes	
<ul style="list-style-type: none"> • DCP 	Yes	
<ul style="list-style-type: none"> • LLDP 	Yes	
identification & maintenance function		
<ul style="list-style-type: none"> • I&M0 - device-specific information 	Yes	
<ul style="list-style-type: none"> • I&M1 - higher level designation/location designation 	Yes	
product functions / diagnostics		
product function		
<ul style="list-style-type: none"> • PROFINET IO diagnosis 	Yes	
<ul style="list-style-type: none"> • link check 	No	
<ul style="list-style-type: none"> • connection monitoring IP-Alive 	No	
<ul style="list-style-type: none"> • localization via Aeroscout 	Yes	
<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 	Yes	
product functions / DHCP		
product function		
<ul style="list-style-type: none"> • DHCP client 	Yes	
<ul style="list-style-type: none"> • DHCP server 	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 	Yes	
<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 synchronization (SIMATIC Time) 	Yes	
standards, specifications, approvals		
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"> • railway application in accordance with EN 50121-4 	No	

<ul style="list-style-type: none"> • NEMA TS2 • IEC 61375 • IEC 61850-3 • NEMA4X • Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af • Power-over-Ethernet according to IEEE802.3at for type 2 	No No No No Yes Yes
standard for wireless communication	
<ul style="list-style-type: none"> • IEEE 802.11a • IEEE 802.11b • IEEE 802.11e • IEEE 802.11g • IEEE 802.11h • IEEE 802.11i • IEEE 802.11n 	Yes Yes Yes Yes Yes Yes Yes
wireless approval	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) 	Yes Yes Yes Yes Yes Yes Yes Yes
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	
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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