

Product type designation

SCALANCE W734-1 RJ45

IWLAN client, SCALANCE W734-1, 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, terminal 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 terminal block; for operation outside of USA/Israel



Transmission rate

Transfer rate	
<ul style="list-style-type: none"> • with WLAN / maximum • for Industrial Ethernet 	300 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 	2 1 1
Type of electrical connection	
<ul style="list-style-type: none"> • for network components or terminal equipment • for power supply 	RJ45 socket 4-pole screw terminal, PoE
design of the removable storage	
<ul style="list-style-type: none"> • C-PLUG 	Yes

- KEY-PLUG

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 / 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
Supply voltage <ul style="list-style-type: none"> • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af 	48 V
Consumed current <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 	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

Permitted 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	95 %
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 weight

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
Mounting type	wall mounting only if flat mounted
<ul style="list-style-type: none"> • S7-300 rail mounting • S7-1500 rail mounting • 35 mm DIN rail mounting • wall mounting 	Yes Yes Yes Yes

Wireless 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 4.9 ... 5.8 GHz

Product properties, functions, components / general

Product function / Access Point Mode	No
Product function / Client Mode	Yes
Product function	
<ul style="list-style-type: none"> • iPCF client • iPCF-MC client 	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
Number of iPCF-capable radio modules	1
Product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' only

Product functions / management, configuration

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 • WDS 	Yes Yes Yes Yes Yes Yes No
Protocol / is supported	
<ul style="list-style-type: none"> • Address Resolution Protocol (ARP) • ICMP • Telnet • HTTP • HTTPS 	Yes Yes Yes Yes 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
• SysLog	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes

Product functions / VLAN

Product function	
• function VLAN with IWLAN	No

Product functions / DHCP

Product function	
• DHCP client	Yes
• in Client Mode / DHCP server via LAN	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 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
 - NEMA TS2 No
 - IEC 61375 No
 - IEC 61850-3 No
 - NEMA4X No
 - Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af Yes
 - Power-over-Ethernet according to IEEE802.3at for type 2 Yes

- 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

- Marine classification association
- American Bureau of Shipping Europe Ltd. (ABS) Yes

- Bureau Veritas (BV)
- DNV GL
- 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

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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