

### product type designation



### W734-1 RJ45 (USA)

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, 2.4/5 GHz, gross data rate 300 Mbps, 2x RJ45 max. 100 Mbps, 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, FCC ID: LYHMSN1V1, scope of delivery: manuals on CD-ROM, German/English, 1x joint block; only for operation in the USA.

transfer rate	
transfer rate	
<ul style="list-style-type: none"> <li>with WLAN / maximum</li> </ul>	300 Mbit/s
<ul style="list-style-type: none"> <li>for Industrial Ethernet</li> </ul>	10, 100 Mbit/s
interfaces	
number of electrical connections	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	2
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	1
<ul style="list-style-type: none"> <li>for redundant voltage supply</li> </ul>	1
type of electrical connection	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	RJ45 socket
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	4-pole screw terminal, PoE
memory	
design of the removable storage	
<ul style="list-style-type: none"> <li>C-PLUG</li> </ul>	Yes
<ul style="list-style-type: none"> <li>KEY-PLUG</li> </ul>	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	
<ul style="list-style-type: none"> <li>from Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af</li> </ul>	48 V
consumed current	
<ul style="list-style-type: none"> <li>at DC / at 24 V / typical</li> </ul>	0.25 A
<ul style="list-style-type: none"> <li>with Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical</li> </ul>	0.125 A
power loss [W]	
<ul style="list-style-type: none"> <li>at DC / at 24 V / typical</li> </ul>	6 W
<ul style="list-style-type: none"> <li>with Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical</li> </ul>	6 W
supply voltage / 1	
<ul style="list-style-type: none"> <li>from terminal block</li> </ul>	19.2 V
supply voltage / 2	

<ul style="list-style-type: none"> <li>from terminal block</li> </ul>	28.8 V
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-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
<b>design, dimensions and weights</b>	
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"> <li>S7-300 rail mounting</li> <li>S7-1500 rail mounting</li> <li>35 mm DIN-rail mounting</li> <li>wall mounting</li> </ul>	Yes Yes Yes Yes
<b>radio frequencies</b>	
operating frequency	
<ul style="list-style-type: none"> <li>for WLAN in 2.4 GHz frequency band</li> <li>for WLAN in 5 GHz frequency band</li> </ul>	2.41 ... 2.48 GHz; depending on the country approvals 4.9 ... 5.8 GHz; depending on the country approvals
<b>product features, product functions, product components / general</b>	
product function / Access Point Mode	No
product function / client Mode	Yes
product function	
<ul style="list-style-type: none"> <li>iPCF client</li> <li>iPCF-MC client</li> </ul>	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
<b>product functions / management, configuration, engineering</b>	
number of manageable IP addresses / in client	8
product function	
<ul style="list-style-type: none"> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> <li>configuration with STEP 7</li> <li>configuration with STEP 7 in the TIA Portal</li> <li>WDS</li> </ul>	Yes Yes Yes Yes Yes Yes No
protocol / is supported	
<ul style="list-style-type: none"> <li>Address Resolution Protocol (ARP)</li> <li>ICMP</li> <li>Telnet</li> <li>HTTP</li> <li>HTTPS</li> <li>TFTP</li> <li>DCP</li> <li>LLDP</li> </ul>	Yes Yes Yes Yes Yes Yes No
identification & maintenance function	
<ul style="list-style-type: none"> <li>I&amp;M0 - device-specific information</li> </ul>	Yes

• I&M1 - higher level designation/location designation	Yes
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
<b>product functions / diagnostics</b>	
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
<b>product functions / VLAN</b>	
product function	
• function VLAN with IWLAN	No
<b>product functions / DHCP</b>	
product function	
• DHCP client	Yes
• DHCP server	Yes
• DHCP Option 82	Yes
<b>product functions / redundancy</b>	
protocol / is supported	
• STP/RSTP	Yes
• MSTP	Yes
• RSTP	Yes
<b>product functions / security</b>	
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
<b>product functions / time</b>	
protocol / is supported	
• NTP	Yes
• SNTP	Yes
• SIMATIC time synchronization (SIMATIC Time)	Yes
<b>standards, specifications, approvals</b>	
standard	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X
• for safety / from CSA and UL	UL 60950-1 E115352, 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	

<ul style="list-style-type: none"> <li>• IEEE 802.11a</li> <li>• IEEE 802.11b</li> <li>• IEEE 802.11e</li> <li>• IEEE 802.11g</li> <li>• IEEE 802.11h</li> <li>• IEEE 802.11i</li> <li>• IEEE 802.11n</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
wireless approval	You will find the current list of countries at: <a href="http://www.siemens.de/funkzulassungen">www.siemens.de/funkzulassungen</a>
reference code	
<ul style="list-style-type: none"> <li>• according to IEC 81346-2:2019</li> </ul>	KFE
<b>standards, specifications, approvals / marine classification</b>	
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• French marine classification society (BV)</li> <li>• DNV GL</li> <li>• Korean Register of Shipping (KRS)</li> <li>• Lloyds Register of Shipping (LRS)</li> <li>• Nippon Kaiji Kyokai (NK)</li> <li>• Polski Rejestr Statkow (PRS)</li> <li>• Royal Institution of Naval Architects (RINA)</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<b>standards, specifications, approvals / hazardous environments</b>	
standard / 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"> <li>• from CSA and UL</li> </ul>	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC E240480
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
<ul style="list-style-type: none"> <li>• as marking</li> </ul>	Ex nA IIC T4 Gc
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>• total</li> <li>• during manufacturing</li> <li>• during operation</li> <li>• after end of life</li> </ul>	<p>195.92 kg</p> <p>29.7 kg</p> <p>166.06 kg</p> <p>0.16 kg</p>
<b>accessories</b>	
accessories	24 V DC screw terminal included in scope of delivery
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to web page: WLAN country approval</li> <li>• to the website: IWLAN</li> <li>• to website: Industrial communication</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a></p> <p><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a></p> <p><a href="https://www.siemens.com/wireless-approvals">https://www.siemens.com/wireless-approvals</a></p> <p><a href="https://www.siemens.com/iwlan">https://www.siemens.com/iwlan</a></p> <p><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a></p> <p><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a></p> <p><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a></p> <p><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>
<b>security information</b>	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase

customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert.> (V4.7)

### Approvals / Certificates

#### General Product Approval



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[China RoHS](#)

#### For use in hazardous locations



[FM](#)

[CCC-Ex](#)

[Miscellaneous](#)



#### Radio Equipment Type Approval Certificate

#### Maritime application

#### Maritime application



[NK / Nippon Kaiji Kyokai](#)



#### Environment



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