# **SIEMENS**

### **Data sheet**

## 6GK5721-1FC00-0AA0

product type designation	W721-1 RJ45
	IWLAN client, SCALANCE W721-1, 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, joint 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 joint block; for operation outside of USA/Israel .
transfer rate	
transfer rate	
<ul><li>with WLAN / maximum</li></ul>	150 Mbit/s
<ul> <li>for Industrial Ethernet</li> </ul>	10, 100 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	100 Mbit/s
interfaces	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	1
<ul><li>for power supply</li></ul>	1
<ul> <li>for redundant voltage supply</li> </ul>	0
type of electrical connection	
<ul> <li>for network components or terminal equipment</li> </ul>	RJ45 socket
<ul><li>for power supply</li></ul>	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	Yes
directly on device	
supply voltage, current consumption, power loss	DO.
type of voltage / of the supply voltage	DC
consumed current	0.45.4
• at DC / at 24 V / typical	0.15 A
power loss [W]	0.C.W
at DC / at 24 V / typical	3.6 W
supply voltage / 1  • from terminal block	10.21/
	19.2 V
supply voltage / 2  • from terminal block	28.8 V
ambient conditions	20.0 V
ambient temperature	0 55 °C
<ul><li>during operation</li><li>during storage</li></ul>	0 55 °C -40 +85 °C
	-40 +85 °C
<ul> <li>during transport</li> <li>relative humidity / at 25 °C / without condensation / during</li> </ul>	-40 +85 C 95 %
operation / maximum	35 /0
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 weights	0
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	
S7-300 rail mounting	No
S7-1500 rail mounting	No
<ul> <li>35 mm top hat DIN rail mounting</li> </ul>	Yes
<ul> <li>wall mounting</li> </ul>	No
radio frequencies	
operating frequency	
• for WLAN in 2.4 GHz frequency band	2.41 2.48 GHz; depending on the country approvals
<ul> <li>for WLAN in 5 GHz frequency band</li> </ul>	4.9 5.8 GHz; depending on the country approvals
product features, product functions, product components	/ general
product function / Access Point Mode	No
product function / client Mode	Yes
product function	
• iPCF client	No
• iPCF-MC client	No
product function / iREF	No
product function / iPRP	No
product functions / management, configuration, engineeri	ng
number of manageable IP addresses / in client	4
product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
<ul> <li>MIB support</li> </ul>	Yes
<ul> <li>TRAPs via email</li> </ul>	Yes
<ul> <li>configuration with STEP 7</li> </ul>	Yes
<ul> <li>configuration with STEP 7 in the TIA Portal</li> </ul>	Yes
• WDS	No
protocol / is supported	
<ul> <li>Address Resolution Protocol (ARP)</li> </ul>	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	No
identification & maintenance function	V
I&M0 - device-specific information      I&M4 - higher level designation (leveling designation)	Yes
I&M1 - higher level designation/location designation	Yes
product functions / diagnostics	
product function	
PROFINET IO diagnosis	No
• 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	
<ul> <li>function VLAN with IWLAN</li> </ul>	No

product function (a)         OHCP client (b)         Yes           OHCP Server (b)         Yes         OHCP Client (b)         Yes           OHCP Option 82 (b)         Yes         Yes           product functions / redundancy         Protocol / is supported (b)         Yes           • STP/RSTP (b)         Yes         Yes           • MSTP (c)         Yes         Yes           • RSTP (c)         Yes         Yes           product functions / security         Product function (c)         Yes           • ACL - MAC-based (c)         Yes         Yes           • IEEE 802.1x (radius) (c)         Yes         Yes           • IEEE 802.1x (radius) (c)         Yes         Yes           • NATNANAPT (c)         Yes         Yes           • AATINAPT (c)         Yes         Yes           • TKIP/AES (c)         Yes         Yes           protocol / is supported         SSH (c)         Yes           • SSH (c)         Yes         Yes           product functions / time         Yes         Yes           product functions / time         Yes         Yes           • SMTP (c)         Yes         Yes           • SMTP (c)         Yes         Yes	
product functions / redundancy  protocol / is supported	
protocol / is supported	
STP/RSTP  MSTP  RSTP  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  WPAMPA2  TKIP/AES  TKIP/AES  Product functions / time  Pros Standards / Yes  SIMATIC time synchronization (SIMATIC Time)  Yes  Standards / Specifications / Approvals  Certificate of suitability  EC Declaration of Conformity  Yes  C-Tick  Pes  Et approval  Rod  Rod  Rod  Rod  Rod  Rod  Rod  Ro	
MSTP RSTP RSTP Yes  product functions / security  product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT caccess protection according to IEEE802.111 WPAWPA2 TKIP/AES TKIP/AES PRADIUS  Product functions / time  protocol / is supported NTP SIMATIC time synchronization (SIMATIC Time)  standards, specifications, approvals Certificate of suitability EC Declaration of Conformity EC approval CTICK PSM Yes P	
Product functions / security  product function  ACL - MAC-based  management security, ACL-IP based    IEEE 802.1x (radius)   NAT/NAPT	
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  WPAWPA2 Yes  TKIP/AES Yes  Protocol / is supported  SSH Yes  RADIUS Yes  Product functions / time  protocol / is supported  NTP Yes  SIMATIC time synchronization (SIMATIC Time) Yes  standards, specifications, approvals  certificate of suitability  EC Declaration of Conformity Yes  CE marking Yes  C-Tick Yes  E1 approval  railway application in accordance with EN 50155 No  NEMA TS2  IEC 61375  No	
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  • RADIUS Yes  product functions / time  protocol / is supported  • NTP Yes  • SNTP  • SIMATIC time synchronization (SIMATIC Time)  standards, specifications, approvals  certificate of suitability  • EC Declaration of Conformity Yes  • C-Tick Yes  • E1 approval  • railway application in accordance with EN 50155 No  • NEMA TS2  • IEC 61375	
ACL - MAC-based     management security, ACL-IP based     IEEE 802.1x (radius)     NAT/NAPT     Yes     access protection according to IEEE802.11i     Yes     WPA/WPA2     TKIP/AES     Yes protocol / is supported     SSH     RADIUS     Product functions / time protocol / is supported     NTP     SNTP     SNTP     SIMATIC time synchronization (SIMATIC Time)  standards, specifications, approvals  certificate of suitability     EC Declaration of Conformity     Yes     C-Tick     Fl approval     RAMI TS2     No     NEMA TS2     IEC 61375     No	
management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT Access protection according to IEEE802.11i WPAWWPA2 TKIP/AES Protocol / is supported SSH RADIUS  Protocol / is supported NTP SNTP SIMATIC time synchronization (SIMATIC Time)  standards, specifications, approvals  certificate of suitability CE marking C-Tick F1 approval F1 approval F1 approval F2 approval F3 approval F3 approval F4 approval F4 approval F5 approval F6 approval F6 approval F6 approval F7 approval F8 approval F9 approval F9 approval F9 approval F9 approval F1 approval F1 approval F1 approval F1 approval F1 approval F2 approval F3 approval F1 approval F2 approval F2 approval F3 approval F1 approval F2 approval F3 approval F1 approval F2 approval F3 approval F1 approval F2 approval F2 approval F2 approval F3 approval F2 approval F3 approval F3 approval F4 approval F2 approval F3 approval F4 approval F5 approval F6 approval F7 appr	
IEEE 802.1x (radius)  NAT/NAPT  Access protection according to IEEE802.11i  WPAWPA2  TKIP/AES  Protocol / is supported  SSH RADIUS  Product functions / time  Protocol / is supported  NTP SNTP SNTP SIMATIC time synchronization (SIMATIC Time)  standards, specifications, approvals  certificate of suitability EC Declaration of Conformity EC arrangements For Suman Supported  E1 approval F1 approval F2 supported F3 yes F4 supported F4 supported F5 supported F6 supported F7 supported F7 supported F8 supported F9	
NAT/NAPT  access protection according to IEEE802.11i  WPAWPA2  TKIP/AES  TKIP/AES  Protocol / is supported  SSH  RADIUS  Product functions / time  Protocol / is supported  NTP  SIMATIC time synchronization (SIMATIC Time)  Standards, specifications, approvals  certificate of suitability  EC Declaration of Conformity  CE marking  C-Tick  E1 approval  Radius SUMATIC  No  Ne  NEMA TS2  I REC 61375  No	
access protection according to IEEE802.11i WPAWPA2 WPAWPA2 TKIP/AES TKIP/AES Protocol / is supported SSH RADIUS  Product functions / time  Protocol / is supported NTP SIMATIC time synchronization (SIMATIC Time)  Standards, specifications, approvals  certificate of suitability EC Declaration of Conformity CE marking C-Tick E1 approval Richards SUBSANCE SIMATIC No REMA TS2 Richards SUBSANCE Richards SUBSAN	
WPA/WPA2 TKIP/AES TKIP/AES  Protocol / is supported  SSH RADIUS  Product functions / time  Protocol / is supported  NTP SNTP SIMATIC time synchronization (SIMATIC Time)  standards, specifications, approvals  certificate of suitability EC Declaration of Conformity EC marking C-Tick FI approval	
TKIP/AES  protocol / is supported  SSH RADIUS  Product functions / time  protocol / is supported  NTP SNTP SIMATIC time synchronization (SIMATIC Time)  standards, specifications, approvals  certificate of suitability EC Declaration of Conformity EC marking CC-Tick EI approval FI a	
SSH RADIUS Product functions / time  protocol / is supported  NTP SNTP SIMATIC time synchronization (SIMATIC Time)  standards, specifications, approvals  certificate of suitability EC Declaration of Conformity EC marking CC-Tick FI approval E1 approval FI a	
SSH RADIUS Product functions / time  protocol / is supported  NTP SNTP SIMATIC time synchronization (SIMATIC Time)  standards, specifications, approvals  certificate of suitability EC Declaration of Conformity EC marking CC-Tick FI approval E1 approval FI a	
product functions / time  protocol / is supported  • NTP  • SNTP  • SIMATIC time synchronization (SIMATIC Time)  standards, specifications, approvals  certificate of suitability  • EC Declaration of Conformity  • EC marking  • C-Tick  • E1 approval  • E1 approval  • railway application in accordance with EN 50155  • NEMA TS2  • IEC 61375	
protocol / is supported  NTP SNTP SIMATIC time synchronization (SIMATIC Time)  standards, specifications, approvals  certificate of suitability EC Declaration of Conformity CE marking C-Tick E1 approval F1 approval F1 approval No No No NEMA TS2 No No No	
<ul> <li>NTP</li> <li>SNTP</li> <li>SIMATIC time synchronization (SIMATIC Time)</li> <li>Yes</li> <li>Standards, specifications, approvals</li> <li>certificate of suitability</li> <li>EC Declaration of Conformity</li> <li>CE marking</li> <li>C-Tick</li> <li>E1 approval</li> <li>F1 approval</li> <li>railway application in accordance with EN 50155</li> <li>NEMA TS2</li> <li>IEC 61375</li> <li>No</li> </ul>	
<ul> <li>NTP</li> <li>SNTP</li> <li>SIMATIC time synchronization (SIMATIC Time)</li> <li>Yes</li> <li>Standards, specifications, approvals</li> <li>certificate of suitability</li> <li>EC Declaration of Conformity</li> <li>CE marking</li> <li>C-Tick</li> <li>E1 approval</li> <li>Failway application in accordance with EN 50155</li> <li>No</li> <li>NEMA TS2</li> <li>IEC 61375</li> <li>No</li> </ul>	
SIMATIC time synchronization (SIMATIC Time)  Standards, specifications, approvals  certificate of suitability  EC Declaration of Conformity  CE marking  C-Tick  E1 approval  In approval  In approval  In accordance with EN 50155  In No	
standards, specifications, approvals  certificate of suitability  • EC Declaration of Conformity  • CE marking  • C-Tick  • E1 approval  • railway application in accordance with EN 50155  • NEMA TS2  • IEC 61375	
certificate of suitability  • EC Declaration of Conformity  • CE marking  • C-Tick  • E1 approval  • railway application in accordance with EN 50155  • NEMA TS2  • IEC 61375	
<ul> <li>EC Declaration of Conformity</li> <li>CE marking</li> <li>C-Tick</li> <li>E1 approval</li> <li>railway application in accordance with EN 50155</li> <li>NEMA TS2</li> <li>IEC 61375</li> </ul> Yes <ul> <li>Yes</li> <li>No</li> <li>No</li> </ul>	
<ul> <li>CE marking</li> <li>C-Tick</li> <li>E1 approval</li> <li>railway application in accordance with EN 50155</li> <li>NEMA TS2</li> <li>IEC 61375</li> <li>No</li> </ul>	
<ul> <li>C-Tick</li> <li>E1 approval</li> <li>railway application in accordance with EN 50155</li> <li>NEMA TS2</li> <li>IEC 61375</li> <li>No</li> </ul>	
<ul> <li>E1 approval</li> <li>railway application in accordance with EN 50155</li> <li>NEMA TS2</li> <li>IEC 61375</li> <li>No</li> </ul>	
<ul> <li>railway application in accordance with EN 50155</li> <li>NEMA TS2</li> <li>IEC 61375</li> <li>No</li> </ul>	
<ul> <li>NEMA TS2</li> <li>No</li> <li>IEC 61375</li> <li>No</li> </ul>	
• IEC 61375 No	
• NEMA4X No	
New Power-over-Ethernet according IEEE802.3at for	
type 1 and IEEE802.3af	
<ul> <li>Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	
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	
standards, specifications, approvals / marine classification	
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)  No	
• French marine classification society (BV)  No	
• DNV GL No	
Korean Register of Shipping (KRS)	
Lloyds Register of Shipping (LRS)	
Nippon Kaiji Kyokai (NK)  No	
Polski Rejestr Statkow (PRS)     No	
Royal Institution of Naval Architects (RINA)     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

#### accessories

accessories

24 V DC screw terminal included in scope of delivery

#### further information / internet-Links

#### Internet-Link

• 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)

last modified:

7/1/2021