

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6GK5721-1FC00-0AA0

INDUSTRIAL WIRELESS LAN CLIENT

Used with the applicable SCALANCE W721-1 RJ45 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens SCALANCE W721-1 RJ45 manufacturer documentation; applicable pages 1, 2, 3, 4

Data sheet

6GK5721-1FC00-0AA0

Product type designation



SCALANCE W721-1 RJ45

IWLAN CLIENT, SCALANCE W721-1 RJ45, FOR USE OUTSIDE OF USA, 1 RADIO, 1 R-SMA ANT. CONNECT., IEEE 802.11A/B/G/H/N, 2.4/5GHZ, BRUTTO DATA RATE 150 MBIT/S, 1 X RJ45 (MAX. 100 MBIT/S), 1X24VDC, IP20, PLEASE NOTE NATIONAL APPROVALS. (CERT ID: ELN-W1-RJ-E1) SCOPE OF SUPPLY: MANUALS ON CD ROM, GERMAN / ENGLISH, 1 X TERMINAL BLOCK

Transmission rate

Transfer rate

- | | |
|---------------------------|--|
| • with WLAN / maximum | 150 Mbit/s |
| • for Industrial Ethernet | 10 Mbit/s, 100 Mbit/s, 10 Mbit/s, 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 |

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
Supply voltage / 1 • from terminal block	19.2 V
Supply voltage / 2 • from terminal block	28.8 V
Consumed current • at DC / at 24 V / typical	0.15 A
Power loss [W] • at DC / at 24 V / typical	3.6 W

Permitted ambient conditions

Ambient temperature • during operation • during storage • during transport	0 ... 55 °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 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 weight

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
Mounting type • S7-300 rail mounting • S7-1500 rail mounting • wall mounting	No No No

Wireless frequencies

Operating frequency • for WLAN in 2.4 GHz frequency band	2.41 ... 2.48 GHz
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- for WLAN in 5 GHz frequency band

4.9 ... 5.8 GHz

Product properties, functions, components / general

Product function / Access Point Mode	No
Product function / Client Mode	Yes
Product function	
• Dual Client	No
• iPCF client	No
• iPCF-MC client	No

Product functions / management, configuration

Number of manageable IP addresses / in client	8
Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• Configuration with STEP 7	Yes
• configuration with STEP 7 in the TIA Portal	Yes
• forced roaming with IWLAN	No
• WDS	No
Protocol / is supported	
• Address Resolution Protocol (ARP)	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	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	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 | No |

Product functions / DHCP

- | | |
|--|-----|
| Product function | |
| • DHCP client | Yes |
| • in Client Mode / DHCP server via LAN | No |

Product functions / Security

- | | |
|--|-----|
| Product function | |
| • ACL - MAC-based | No |
| • Management security, ACL-IP based | Yes |
| • IEEE 802.1x (radius) | Yes |
| • NAT/NAPT | No |
| • access protection according to IEEE802.11i | Yes |
| • WPA/WPA2 | Yes |
| • TKIP/AES | Yes |
| Protocol / is supported | |
| • SSH | Yes |

Product functions / Time

- | | |
|-------------------------|-----|
| Protocol / is supported | |
| • 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 |
| • for hazardous zone / from CSA and 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 |
| Certificate of suitability | |
| • EC declaration of conformity | Yes |
| • CE marking | Yes |
| • C-Tick | Yes |
| • CCC | No |
| • E1 approval | No |
| • Railway application in accordance with EN 50155 | No |