SIEMENS

Data sheet

Product type designation

6GK5774-1FX00-0AA0



SCALANCE 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, 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	
 with WLAN / maximum 	300 Mbit/s
 for Industrial Ethernet 	10, 100 Mbit/s
Transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	100 Mbit/s
Interfaces	
Number of electrical connections	
 for network components or terminal equipment 	2
• for power supply	1
 for redundant voltage supply 	1
Type of electrical connection	
 for network components or terminal equipment 	RJ45 socket
• for power supply	4-pole screw terminal, PoE
design of the removable storage	
• C-PLUG	Yes

Interfaces / wireless 1 Number of radio cards / permanently installed 1 Transmission mode / for multiple input multiple output 1 Aumber of spatial streams 2 Number of patial streams 2 Number of patial streams 2 Number of electrical connections / for external antenna(s) R-SMA (socket) Product feature / external antenna can be mounted directly on device Yes Supply voltage, current consumption, power loss Yes Supply voltage / 0 DC Supply voltage / 1 19.2 V • from terminal block 19.2 V Supply voltage / 2 8.8 V • from terminal block 19.2 V Supply voltage / 2 8.8 V • from terminal block 19.2 V Supply voltage / 2 8.8 V • from Power-over-Ethernet acc. to IEEEB02.3at 6.8 V for type 1 and IEEEB02.3af 0.125 A IEEEB02.3at for type 1 and IEEEB02.3af / typical 6.W • with Power-over-Ethernet according to 1.25 A IEEEEB02.3at for type 1 and IEEEB02.3af / typical 6.W • at DC / at 24 V / typical 6.W	• KEY-PLUG	Yes	
Number of radio cards / permanently installed 1 Transmission mode / for multiple input multiple output (MMO) 2x2 Number of statial streams 2 Number of statial streams 2 Type of electrical connection / for external antenna(s) R-SMA (socket) Product feature / external antenna (s) R-SMA (socket) Ype of oldage / of the supply voltage DC Supply voltage / 1 19.2 V • from terminal block 28.8 V Supply voltage / 2 48 V • from terminal block 28.8 V Supply voltage / 2 48 V • from terminal block 0.25 A Supply voltage 0.25 A • with Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical 0.25 A • with Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical 6 W • during operature -40 +60 °C -40 +68 °C • during operature -40 +68 °C -40 +68 °C • during operature -40 +68 °C 97 % • during operature -40 +68 °C	Interfaces / wireless		
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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 Supply voltage 2 48 V Supply voltage - - • from Terminal block 28.8 V Supply voltage - - • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af / typical 0.25 A • at DC / at 24 V / typical 0.25 A 0.125 A Power loss [W] • at DC / at 24 V / typical 6 W • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 6 W Permitted ambient conditions -20 +60 °C -40 +85 °C • during operation -20 +80 °C -40 +85 °C • during transport -40 +85 °C -40 +85 °C • during operation / maximum 97 % 97 % Armbient condition / for operation When used under hazardous conditions (Zone 2), the SCALANCE W774-1 RJ45 product must be installed in an enclosure. enclosure // the requirements of at least IP 54 in compliance with EN 60529. Protection class IP Paso Paso		Yes	
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• at DC / at 24 V / typical 6 W • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 6 W Permitted ambient conditions 6 W Ambient temperature -20 +60 °C • during operation -20 +60 °C • during transport -40 +85 °C • during transport -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 weight 26 mm	-	0.125 A	
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• during storage-40 +85 °C• during transport-40 +85 °C• during transport-40 +85 °CRelative humidity / at 25 °C / without condensation / during operation / maximum97 %Ambient condition / for operationWhen 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 IPIP30Design, dimensions and weight26 mm	Ambient temperature		
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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 weight 26 mm	 during storage 	-40 +85 °C	
during operation / maximumWhen 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 IPIP30Design, dimensions and weightWidth26 mm	• during transport	-40 +85 °C	
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 26 mm	-	97 %	
Design, dimensions and weight Width 26 mm	Ambient condition / for operation	W774-1 RJ45 or W734-1 RJ45 product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet	
Width 26 mm	Protection class IP	IP30	
Width 26 mm	Design, dimensions and weight		
Height 156 mm		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
 S7-300 rail mounting 	Yes
• S7-1500 rail mounting	Yes
• 35 mm DIN rail mounting	Yes
wall mounting	Yes
Wireless frequencies	
Operating frequency	
 for WLAN in 2.4 GHz frequency band 	2.41 2.48 GHz
 for WLAN in 5 GHz frequency band 	4.9 5.8 GHz
Product properties, functions, components / genera	
Product function / Access Point Mode	Yes
Product function / Client Mode	Yes
Number of SSIDs	4
Product function	
iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF client	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'
 iPCF-MC Access Point 	No
● iPCF-MC client	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	
Number of manageable IP addresses / in client	8
Product function	Y.
• 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
 operation with IWLAN controller 	No
 operation with Enterasys WLAN controller 	No
 forced roaming on IP down with IWLAN 	Yes
 forced roaming on link down with IWLAN 	Yes

• WDS	Yes
Protocol / is supported	
 Address Resolution Protocol (ARP) 	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	Yes
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
 localization via Aeroscout 	Yes
• SysLog	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Product functions / VLAN	
Product function	
 function VLAN with IWLAN 	Yes
Product functions / DHCP	
Product function	
DHCP client	Yes
DHCP server	Yes
DHCP Option 82	Yes
Product functions / Redundancy	
Protocol / is supported	
• STP/RSTP	Yes
• MSTP	Yes
• RSTP	Yes
Product functions / Security	
Product function	

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ACL - MAC-based	Yes
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
• RADIUS	Yes
Product functions / Time	
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
 SIMATIC time synchronization (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
 Railway application in accordance with EN 50121-4 	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. 	Yes
(ABS)	
• Bureau Veritas (BV)	Yes
• DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
 Polski Rejestr Statkow (PRS) 	Yes
 Royal Institution of Naval Architects (RINA) 	Yes
Accessories	
accessories	24 V DC screw terminal included in scope of delivery
Further Information / Internet Links	
Internet-Link	
 to website: TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
• to the website: IWLAN	http://www.siemens.com/iwlan
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
 to website: Industry Online Support 	https://support.industry.siemens.com

Security information

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