SIEMENS

Data sheet

6GK5774-1FX00-0AB0

product type designation



W774-1 RJ45 (USA)

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 in the USA

transfer 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
• KEY-PLUG	Yes
memory	
design of the removable storage	
• 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	
 from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af 	48 V
consumed current	
at DC / at 24 V / typical	0.25 A
 with Power-over-Ethernet according to IEEE802.3at 	0.125 A

power loss [W] I DC / at 24 V / lypical With Power-over Ethemet according to IEEE802 3at with rype I and IEEE802 3af I / lypical supply voltage [17] I non terminal block 28.8 V ### Supply voltage [27] I non terminal block ### Supply voltage [27] I ono terminal block ### Supply voltage [27] ### Supply	for type 1 and IEEE802.3af / typical	
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Supply voltage / 1 From terminal block 19.2 V		O VV
supply voltage / 2 - from terminal block supply voltage / 2 - from terminal block subject voltage / 2 - from		
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• during storage • during transport relative humidity / at 25 °C / without condensation / during operation / maximum 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 weights width With 156 mm depth 156 mm depth 156 mm height 10f the enclosure / without antenna 127 mm with / of the enclosure / without antenna 147 mm height / of the enclosure / without antenna 147 mm net weight 3.52 kg fastening method 4.57-300 rail mounting Yes • 37-1500 rail mounting Yes • 37-1500 rail mounting Yes • 38 mm top hat DIN rail mounting Yes operating frequencies operating frequency • for WLAN in 5 GHz frequency band • for WLAN in 5 GHz	•	30 ±60 °C
e during transport relative humidity / at 25 °C / without condensation / during operation / maximum ambient condition / for operation When used under hazardous conditions (Zone 2), the SCALANCE W774-1 R.145 or W774-1 R.14		
relative humidity / at 25 °C / without condensation / during operation / maximum ambient condition / for operation When used under hazardous conditions (Zone 2), the SCALANCE WT74+1 RJ45 or WT34+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. IP30 design, dimensions and weights width 26 mm height		
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ambient condition / for operation When used under hazardous conditions (20ne 2), the SCALANCE W774+ RL45 or W734+		91 70
w774-1 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 design, dimensions and weights width 26 mm height 156 mm depth 127 mm with / 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 dastening method wall mounting Yes \$7-300 rail mounting Yes \$37-300 rail mounting Yes \$35 mm top hat DIN rail mounting Yes \$35 mm top hat DIN rail mounting Yes wall mounting Yes operating frequency of ravLAN in 2-4 CHz frequency band 4.9 5.8 GHz; depending on the country approvals product function / client Mode number of SSIDs product function / client Mode number of SPCA Cacess Point Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' PICP Client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' PICP Client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' PICP Client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' PICP Client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' PICP Client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' PICP Client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' PICP Client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' PICP Client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' PICP Client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' PICH W740 iFeatures' only Product functions / management, configuration, engineering number of managemate iP addresses / in client Yes Web-based management Yes WB support WEB STANDARD AND AND AND AND AND AND AND AND AND AN	_ ·	When used under hazardous conditions (Zone 2), the SCALANCE
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height / of the enclosure / without antenna 147 mm depth / of the enclosure / without antenna 127 mm net weight 0.52 kg fastering method wall mounting only if flat mounted • \$7-300 rail mounting Yes • \$7-1500 rail mounting Yes • 37 amm top hat DIN rail mounting Yes • wall mounting Yes • for WLAN in 2.4 GHz frequency band 2.41 2.48 GHz; depending on the country approvals • for WLAN in 5 GHz frequency band 4.9 5.8 GHz; depending on the country approvals • for WLAN in 5 GHz frequency band 4.9 5.8 GHz; depending on the country approvals 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-MC Access Point Yes; Only in combination with the 'KEY-PLUG W740 iFeatures' • iPCF-MC Access Point Yes; Only in combination with the 'KEY-PLUG W740 iFeatures' • iPCF-MC client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' • iPCF-MC client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' • iPCF-MC client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' • iPCF-MC client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' • iPCF-MC client Yes; In combination with the 'KEY-PLUG W780 iFeatures' on 'KEY-PLUG W740 iFeatures' ves in combination with the 'KEY-PLUG W780 iFeatures' on 'KEY-PLUG W740 iFeatures' ves in combination with the 'KEY-PLUG W780 iFeatures' on 'KEY-PLUG W740 iFeatures' ves in combination with the 'KEY-PLUG W780 iFeatures' on 'KEY-PLUG W740 iFeatures' ves in combination with the 'KEY-PLUG W780 iFeatures' on 'KEY-PLUG W740 iFeatures' ves in combination with the 'KEY-PLUG W780 iFeatures' ves in combination with the 'KEY-PLUG W780 iFeatures' ves in co	depth	127 mm
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fastening method • S7-300 rail mounting • S7-300 rail mounting • S7-300 rail mounting • S7-300 rail mounting • S8 mm top hat DIN rail mounting • s8 mm top hat DIN rail mounting • wall mounting * yes • wall mounting * yes • wall mounting * yes * radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency • for WLAN in 5 GHz	depth / of the enclosure / without antenna	127 mm
S7-300 rail mounting S7-1500 rail mounting S7-1500 rail mounting S7-1500 rail mounting S7-1500 rail mounting Wes S7-1500 rail mounting Wes Wall mounting Yes radio frequencies operating frequency of rWLAN in 2.4 GHz frequency band for WLAN in 2.4 GHz frequency band for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band Yes product features, product functions, product components / general product function / Access Point Mode Yes product function / Cilent Mode NPCF Access Point PPCF-MC Access Point PPCF-MC Access Point PPCF-MC Client Pes; Only in combination with the "KEY-PLUG W740 iFeatures' No PPCF-MC Client PPCF-MC Client Pes; Only in combination with the "KEY-PLUG W740 iFeatures' No PPCF-MC Client PPCF-MC Client Pes; Only in combination with the "KEY-PLUG W740 iFeatures' No PPCF-MC Client Pes; Only in combination with the "KEY-PLUG W740 iFeatures' No PPCF-MC Client Pes; Only in combination with the "KEY-PLUG W740 iFeatures' No PPCF-MC Client Pes; Only in combination with the "KEY-PLUG W740 iFeatures' No PPCF-MC Client Pes; Only in combination with the "KEY-PLUG W740 iFeatures' No PPCF-MC W740 iFeatures' No PPCF	net weight	0.52 kg
• \$7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting • wall mounting • wall mounting • yes radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5.4 GHz frequency band • for WLAN in 5 GHz frequency band • for WLAN in 6 GHz frequency band • yes product function / Access Point Mode product function / Client Mode product function / Client Mode 1 PCF client • iPCF Access Point • iPCF -MC Access Point • iPCF -MC Access Point • iPCF-MC Client • iPCF-MC Client • iPCF-MC client • iPCF-C-apable radio modules 1 product function / IREF PLUG W740 iFeatures' number of iPCF-capable radio modules 1 product function / iPRP Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' number of iPCF-capable radio modules 1 product function / iPRP Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' number of iREF-capable radio modules 1 product functions / management, configuration, engineering number of manageable IP addresses / in client • CLI • web-based management • MIB support • MIB support • TRAPs via email • configuration with STEP 7 Yes	fastening method	wall mounting only if flat mounted
* 35 mm top hat DIN rail mounting * wall mounting * yes radio frequencies operating frequency * for WLAN in 2.4 GHz frequency band * for WLAN in 5 GHz frequency * for WLAN	S7-300 rail mounting	Yes
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 TRAPs via email configuration with STEP 7 Yes 	 web-based management 	Yes
• configuration with STEP 7 Yes	 MIB support 	Yes
	 TRAPs via email 	Yes
• configuration with STEP 7 in the TIA Portal 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 / diagnostics	
product function	
PROFINET IO diagnosis	Yes
link check	No
connection monitoring IP-Alive	No
localization via Aeroscout	Yes
	Yes
SysLog protocol / is supported	165
SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
product functions / VLAN	
product function	
C C MAN CO DAM AND	V.
function VLAN with IWLAN	Yes
product functions / DHCP	Yes
product functions / DHCP product function	Yes
product functions / DHCP product function • DHCP client	Yes
product functions / DHCP product function • DHCP client • DHCP server	
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82	Yes
product functions / DHCP product function • DHCP client • DHCP server	Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82	Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy	Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported	Yes Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP	Yes Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP	Yes Yes Yes Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP	Yes Yes Yes Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security	Yes Yes Yes Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function	Yes Yes Yes Yes Yes Yes Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • ACL - MAC-based • management security, ACL-IP based	Yes Yes Yes Yes Yes Yes Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • ACL - MAC-based	Yes Yes Yes Yes Yes Yes Yes Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy 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	Yes Yes Yes Yes Yes Yes Yes Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius)	Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy 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	Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy 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 • WPA/WPA2 • TKIP/AES	Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy 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 • WPA/WPA2	Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy 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 • WPA/WPA2 • TKIP/AES protocol / is supported	Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy 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 • WPA/WPA2 • TKIP/AES protocol / is supported • SSH • RADIUS	Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy 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 • WPA/WPA2 • TKIP/AES protocol / is supported • SSH • RADIUS product functions / time	Yes
product function DHCP client DHCP server DHCP Option 82 product functions / redundancy 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 WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS product functions / time protocol / is supported	Yes
product functions / DHCP product function DHCP client DHCP server DHCP Option 82 product functions / redundancy 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 WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS product functions / time protocol / is supported NTP	Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy 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 • WPA/WPA2 • TKIP/AES protocol / is supported • SSH • RADIUS product functions / time protocol / is supported • NTP • SNTP	Yes
product functions / DHCP product function DHCP client DHCP server DHCP Option 82 product functions / redundancy 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 WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS product functions / time protocol / is supported NTP	Yes

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standard	FM 2044 Oleve I District C C A D C D TV C A T
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
certificate of suitability	02 00000 1, 007 022.2 No. 00000 1
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	Yes
type 1 and IEEE802.3af	Yes
Power-over-Ethernet according to IEEE802.3at for type 2	165
standard for wireless communication	Voc
• IEEE 802.11a	Yes
• IEEE 802.11b	Yes
• IEEE 802.11e	Yes
• IEEE 802.11g	Yes
• IEEE 802.11h	Yes
• IEEE 802.11i • IEEE 802.11n	Yes Yes
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classificatio	on
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	Yes
DNV GL	Yes
 Korean Register of Shipping (KRS) 	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
 Polski Rejestr Statkow (PRS) 	Yes
 Royal Institution of Naval Architects (RINA) 	Yes
standards, specifications, approvals / hazardous environ	ments
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	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 web page: selection aid 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	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
security information security information	functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important component

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)

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