SIEMENS

Datasheet

6GK5774-1FY00-0TA0



IWLAN ACCESS POINT, SCALANCE W774-1 M12 EEC, FOR USE OUTSIDE USA, 1 RADIO, 2 R-SMA ANT. CONNECT., IFEATURES ONLY WITH KEY-PLUG, IEEE 802.11A/B/G/H/N, 2.4/5GHZ, BRUTTO DATA RATE 300 MBIT/S, 2 X M12 (MAX. 100 MBIT/S), POE INTEGRATED 2-PORT-SWITCH, 1X24VDC, PLUG-SLOT, IP20, CONFORMAL COATING PLEASE NOTE NATIONAL APPROVALS! SCOPE OF SUPPLY: MANUALS ON CD-ROM, GERMAN / ENGLISH,

Transmission rate

Transfer rate

with WLAN / maximum

• for Industrial Ethernet

300 Mbit/s

10 Mbit/s, 100 Mbit/s

Interfaces

THE THE COS	
Number of electrical connections	
 for network components or terminal equipment 	2
for power supply	1
 for redundant voltage supply 	1
Design of the electrical connection	
 for network components or terminal equipment 	M12 interface (4-pole, D-coded), PoE
• for power supply	M12 interface (4-pole, A-coded)
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	2x2
(MIMO)	
Number of spatial streams	2
Number of electrical connections / for external	2
antenna(s)	
Design of the electrical connection / for external	R-SMA (socket)
antenna(s)	

Product property / 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
Supply voltage	
• from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af	48 V
Permitted ambient conditions	
Ambient temperature	
 during operation 	-30 +65 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
Relative humidity / at 25 °C / without condensation /	100 %
during operation / maximum	
Product property / conformal coating	Yes
Ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W774-1 M12 EEC 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	
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
Mounting type	wall mounting only if flat mounted
• S7-300 rail mounting	Yes
● S7-1500 rail mounting	Yes
wall mounting	Yes
Wireless frequencies	
Radio 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 / general

Product function / Client Mode Number of SSIDS Product function Product function Product function Product function Product function Product function / PCF Access Point Product function / PCF Access Point Product function / PCF-Capable radio modules PCF-Capable radio	Product function / Access Point Mode	Yes
Product function Dual Client Dual Client ProCF Access Point ProC Elent ProCedent ProCedent ProCedent ProCedent No, Only in combination with the "KEY-PLUG W740 iFeatures" Product function / iREF No Number of iPCF-capable radio modules Number of iPCF-capable radio modules Product functions / management, configuration Number of manageable IP addresses / in client Product functions / management, configuration CLI Product function CLI Press Product function CLI Press Product function CLI Press Product function Product functions / pagnosis Product functions / pagnosis Product function / pagnosis Product function / pagnosis Product function / pagnosis Product function monitoring IP-Alive No No Proprince function in pagnosis Product function in pagnosis Product function monitoring IP-Alive No No Procluct function monitoring IP-Alive No Product function monitoring IP-Alive No Product function monitoring IP-Alive No Product function monitoring IP-Alive	Product function / Client Mode	Yes
Dual Client IPCF Access Point IPCF Access Point PiPCF client PiPCF client PiPCF client PiPCF-MC client No; Only in combination with the "KEY-PLUG W740 iFeatures" Product function / iREF No No Number of iREF-capable radio modules Product functions / management, configuration Number of manageable IP addresses / in client CLI Product function CLI Pes Web-based management MB support TRAPs via email Configuration with STEP 7 configuration with STEP 7 configuration with STEP 7 in the TIA Portal forced roaming with IWLAN WDS Protocol / is supporte Address Resolution Protocol (ARP) ICMP THTP HTTP HTTP HTTP HTTP HTTP DCP LUDP Identification & maintenance function IslaM0 - device-specific information Product functions / Diagnosis Product functions monitoring IP-Alive No No Link Check No No Link Check No No Link Check No No Link Check Link Chec	Number of SSIDs	4
PiPCF Access Point	Product function	
iPCF client iPCF-MC client No; Only in combination with the 'KEY-PLUG W740 iFeatures' No; Only in combination with the 'KEY-PLUG W740 iFeatures' Number of iPCF-capable radio modules Product function / iREF No Number of iREF-capable radio modules O Product functions / management, configuration Number of manageable IP addresses / in client O Product function - CLI - Yes - Web-based management - Wes - TRAPs via email - Configuration with STEP 7 - Configuration with STEP 7 in the TIA Portal - forced roaming with IWLAN - WOS - WOS - Protocol / is supported - Address Resolution Protocol (ARP) - IcIMP - Telnet - HTTP - HTTP - HTTP - HTTP - HTTP - HTTP - LLDP Identification & maintenance function - (I&M0 - device-specific information - PROFINET IO diagnosis - Link Check - connection monitoring IP-Alive - No - Connection monitoring IP-Alive - No - No - WOS - No - Connection monitoring IP-Alive - No - No - No - No - No - No - PROFINET IO diagnosis - Link Check - connection monitoring IP-Alive - No	Dual Client	No
PiPCF-MC client No; Only in combination with the 'KEY-PLUG W740 iFeatures'	• iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
Number of iPCF-capable radio modules Product function / iREF No Number of iREF-capable radio modules Product functions / management, configuration Number of management, configuration Number of management, configuration Number of management OCLI OCLI OCLI OCLI OCLI OCLI OCLI OCLI	• iPCF client	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'
Product function / IREF No Number of IREF-capable radio modules Product functions / management, configuration Number of manageable IP addresses / in client Product function • CLI • web-based management • MIB support • MIB support • TRAPs via email • Configuration with STEP 7 • configuration with STEP 7 in the TIA Portal • forced roaming with IWLAN • WDS Protocol / is supported • Address Resolution Protocol (ARP) • Telnet • HTTP • Telnet • HTTP • Telnet • HTTP • DCP • LLDP Identification & maintenance function • I&MO - device-specific information • PROFINET IO diagnosis Product functions / Diagnosis Product function • PROFINET IO diagnosis • Link Check • connection monitoring IP-Alive	• iPCF-MC client	No; Only in combination with the 'KEY-PLUG W740 iFeatures'
Number of iREF-capable radio modules Product functions / management, configuration Number of manageable IP addresses / in client Product function • CLI • web-based management • MIB support • MIB support • TRAPs via email • Configuration with STEP 7 • configuration with STEP 7 in the TIA Portal • forced roaming with IWLAN • WDS Protocol / is supported • Address Resolution Protocol (ARP) • Telnet • HTTP • Telnet • HTTP • Telnet • HTTP • Telnet • HTTP • Yes • TFTP • DCP • LLDP Identification & maintenance function • I&M0 - device-specific information • I&M0 - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnosis Product functions • PROFINET IO diagnosis • Link Check • connection monitoring IP-Alive	Number of iPCF-capable radio modules	1
Product functions / management, configuration Number of manageable IP addresses / in client Product function • CLI • web-based management • MIB support • TRAPs via email • Configuration with STEP 7 • configuration with STEP 7 in the TIA Portal • forced roaming with IWLAN • WDS Protocol / is supported • Address Resolution Protocol (ARP) • ICMP • Teinet • HTTP • HTTPS • TFTP • DCP • LLDP Identification & maintenance function • I&M0 - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnosis Product functions • PROFINET IO diagnosis • Link Check • connection monitoring IP-Alive No	Product function / iREF	No
Number of manageable IP addresses / in client Product function • CLI • web-based management • MIB support • TRAPs via email • Configuration with STEP 7 • configuration with STEP 7 • configuration with STEP 7 in the TIA Portal • forced roaming with IWLAN • WDS Protocol / is supported • Address Resolution Protocol (ARP) • ICMP • Telnet • HTTP • Telnet • HTTP • HTTP • HTTP • DCP • LLDP Identification & maintenance function • I&M0 - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function • PROFINET IO diagnosis • Link Check • connection monitoring IP-Alive No	Number of iREF-capable radio modules	0
Product function CLI web-based management Yes MIB support TRAPs via email Configuration with STEP 7 Configuration with STEP 7 No configuration with STEP 7 In the TIA Portal forced roaming with IWLAN WDS Protocol / is supported Address Resolution Protocol (ARP) ICMP Telnet HTTP HTTPS Telnet HTTPS TETP DCP LLDP Identification & maintenance function I&MO - device-specific information I&MO - device-specific information I&MO - device-specific information I&MO - device-specific information Product functions / Diagnosis Product function PROFINET IO diagnosis No Link Check Connection monitoring IP-Alive	Product functions / management, configuration	
CLI web-based management Yes MIB support TRAPs via email Yes Configuration with STEP 7 Configuration with STEP 7 No configuration with STEP 7 In the TIA Portal forced roaming with IWLAN WDS Yes Protocol / is supported Address Resolution Protocol (ARP) ICMP Telnet HTTP Yes HTTPS Yes TFTP DCP LLDP Ves Identification & maintenance function I&MO - device-specific information SI&M1 - higher-level designation/location designation Product function PROFINET IO diagnosis No Link Check Connection monitoring IP-Alive No	Number of manageable IP addresses / in client	8
web-based management Wes MIB support Yes TRAPs via email Configuration with STEP 7 No configuration with STEP 7 In the TIA Portal forced roaming with IWLAN WDS Protocol / is supported Address Resolution Protocol (ARP) Yes ICMP Yes Telnet Yes HTTP Yes HTTPS Yes TFTP Yes LLDP Identification & maintenance function I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis No Link Check connection monitoring IP-Alive	Product function	
MIB support TRAPs via email Configuration with STEP 7 configuration with STEP 7 in the TIA Portal forced roaming with IWLAN WDS Yes Protocol / is supported Address Resolution Protocol (ARP) ICMP Telnet HTTP Yes HTTPS Yes TFTP DCP LLDP Identification & maintenance function I &MO - device-specific information Yes Product functions / Diagnosis Product function PROFINET IO diagnosis Link Check Connection monitoring IP-Alive No No No No No No No Pass Pess Pess Pess Pess Pess Pess Pe	• CLI	Yes
TRAPs via email Configuration with STEP 7 Configuration with STEP 7 in the TIA Portal No Configuration with STEP 7 in the TiA Portal No Configuration with STEP 7 in the TiA Portal	web-based management	Yes
Configuration with STEP 7 configuration with STEP 7 in the TIA Portal forced roaming with IWLAN WDS Protocol / is supported Address Resolution Protocol (ARP) ICMP Telnet HTTP Telnet HTTP Yes HTTPS COPP LLDP Identification & maintenance function I&MO - device-specific information I&MO - device-specific information I&MO - device-specific information Product functions / Diagnosis Product function PROFINET IO diagnosis No Link Check Connection monitoring IP-Alive No	 MIB support 	Yes
configuration with STEP 7 in the TIA Portal forced roaming with IWLAN No WDS Protocol / is supported Address Resolution Protocol (ARP) ICMP Telnet Yes Telnet Yes HTTP Yes HTTPS Yes TFTP Yes LLDP Identification & maintenance function I&MO - device-specific information I&MO - device-specific information I&MI - higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis No Link Check connection monitoring IP-Alive No	 TRAPs via email 	Yes
forced roaming with IWLAN	 Configuration with STEP 7 	No
WDS Protocol / is supported Address Resolution Protocol (ARP) Yes ICMP Yes Telnet Yes HTTP Yes HTTPS Yes TFTP Yes DCP LLDP Identification & maintenance function I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis No Link Check Connection monitoring IP-Alive Yes Yes Yes No	 configuration with STEP 7 in the TIA Portal 	No
Protocol / is supported • Address Resolution Protocol (ARP) • ICMP • Telnet • HTTP • HTTPS • HTTPS • TFTP • DCP • LLDP Identification & maintenance function • 1&M0 - device-specific information • 1&M1 - higher-level designation/location designation Product functions / Diagnosis Product function • PROFINET IO diagnosis • Link Check • connection monitoring IP-Alive No	 forced roaming with IWLAN 	No
Address Resolution Protocol (ARP) ICMP Yes Telnet Yes HTTP Yes HTTPS Yes TFTP Yes DCP LLDP Identification & maintenance function I&M0 - device-specific information Ves I&M1 – higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis No Link Check No connection monitoring IP-Alive No	• WDS	Yes
ICMP Telnet Telnet Yes HTTP HTTPS Yes TFTP DCP LLDP Yes LLDP Identification & maintenance function I&M0 - device-specific information I &M1 - higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis Link Check Connection monitoring IP-Alive No	Protocol / is supported	
Telnet Telnet Yes HTTP HTTPS Yes TFTP DCP LLDP Yes LLDP Identification & maintenance function I & MO - device-specific information I & M1 - higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis Link Check Connection monitoring IP-Alive No	 Address Resolution Protocol (ARP) 	Yes
 HTTP HTTPS TFTP DCP LLDP Identification & maintenance function I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis Link Check Connection monitoring IP-Alive No HTTP Yes Yes 	• ICMP	Yes
 HTTPS TFTP DCP LLDP Identification & maintenance function I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis Link Check connection monitoring IP-Alive 	• Telnet	Yes
TFTP DCP LLDP Yes LLDP Identification & maintenance function I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis Link Check connection monitoring IP-Alive Yes Yes No	• HTTP	Yes
DCP LLDP Yes Identification & maintenance function I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis No Link Check connection monitoring IP-Alive Yes Nes Yes No	• HTTPS	Yes
Identification & maintenance function I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis Link Check connection monitoring IP-Alive No	• TFTP	Yes
Identification & maintenance function • I&M0 - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function • PROFINET IO diagnosis • Link Check • connection monitoring IP-Alive No	• DCP	Yes
I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis Link Check connection monitoring IP-Alive No	• LLDP	Yes
I&M1 – higher-level designation/location designation Product functions / Diagnosis Product function PROFINET IO diagnosis Link Check connection monitoring IP-Alive No	Identification & maintenance function	
designation Product functions / Diagnosis Product function • PROFINET IO diagnosis • Link Check • connection monitoring IP-Alive No	• I&M0 - device-specific information	Yes
Product function • PROFINET IO diagnosis • Link Check • connection monitoring IP-Alive No		Yes
Product function • PROFINET IO diagnosis • Link Check • connection monitoring IP-Alive No	Product functions / Diagnosis	
 Link Check connection monitoring IP-Alive No 		
• connection monitoring IP-Alive No	 PROFINET IO diagnosis 	No
	• Link Check	No
● localization via Aeroscout No	 connection monitoring IP-Alive 	No
	localization via Aeroscout	No

SysLog	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Durado et formatione a / N/I ANI	
Product functions / VLAN Product function	
• function VLAN with IWLAN	Yes
Tunction VEAR With IVVEAR	165
Product functions / DHCP	
Product function	v
DHCP client	Yes
• in Client Mode / DHCP server via LAN	No
Product functions / Redundancy	
Protocol / is supported	
• STP/RSTP	Yes
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	Yes
 Railway application in accordance with EN 50155 	Yes
• Fire protection in accordance with EN 45545-2	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. (ABS) 	No
Bureau Veritas (BV)	No
Det Norske Veritas (DNV)	No
 Germanische Lloyd (GL) 	No
 Lloyds Register of Shipping (LRS) 	No
 Nippon Kaiji Kyokai (NK) 	No
 Polski Rejestr Statkow (PRS) 	No
Accessories	
accessories	-
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

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

https://mall.industry.siemens.com

http://www.siemens.com/automation/net/catalog

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

http://support.automation.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. Thirdparty 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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