# **SIEMENS**

#### **Data sheet**

## 6GK5774-1FY00-0TB0

#### product type designation



## W774-1 M12 EEC (USA)

IWLAN Access Point, SCALANCE W774-1 M12 EEC, 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 M12 max. 100 Mbit/s, PoE integrated 2-port switch, redundant 24 V DC,M12 A-coded IP30, -30... 65 °C, plug slot WPA2/802.11i/e,conformal coating EN 50155, observe national approvals! CERT ID: MSN-W1-M12-E2, scope of delivery: Manuals on CD-ROM, English/German; M12 sealing caps, for operation in the USA

transfer rate  • with WLAN / maximum  • for Industrial Ethernet  • minimum  • maximum  • maximum  10 Mbit/s  interfaces  number of electrical connections  • for network components or terminal equipment  • for power supply  • for redundant voltage supply  1 300 Mbit/s  10, 100 Mbit/s  100 Mbit/s  100 Mbit/s	
for Industrial Ethernet     transfer rate / for Industrial Ethernet     minimum	
transfer rate / for Industrial Ethernet  • minimum  • maximum  10 Mbit/s  • maximum  100 Mbit/s  interfaces  number of electrical connections  • for network components or terminal equipment  • for power supply  1	
<ul> <li>minimum</li> <li>maximum</li> <li>10 Mbit/s</li> <li>interfaces</li> <li>number of electrical connections</li> <li>for network components or terminal equipment</li> <li>for power supply</li> <li>1</li> </ul>	
<ul> <li>maximum</li> <li>interfaces</li> <li>number of electrical connections</li> <li>for network components or terminal equipment</li> <li>for power supply</li> <li>1</li> </ul>	
interfaces  number of electrical connections  • for network components or terminal equipment  • for power supply  1	
number of electrical connections  • for network components or terminal equipment  • for power supply  1	
<ul> <li>for network components or terminal equipment</li> <li>for power supply</li> <li>1</li> </ul>	
• for power supply 1	
and the state of	
• for redundant voltage supply 1	
type of electrical connection	
• for network components or terminal equipment M12 interface (4-pole, D-coded), PoE	
• for power supply M12 interface (4-pole, A-coded)	
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	
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage DC	
supply voltage	
• from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af	
consumed current	
• at DC / at 24 V / typical 0.25 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	
ambient conditions	
ambient temperature	

during operation	-30 +65 °C
during operation     during storage	-40 +85 °C
during storage     during transport	-40 +85 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	100 %
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 weights	
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
product feature / conformal coating	Yes
fastening method	wall mounting only if flat mounted
S7-300 rail mounting	Yes
S7-1500 rail mounting	Yes
35 mm top hat DIN rail mounting	Yes
wall mounting	Yes
radio frequencies	
operating frequency	
• 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
product features, product functions, product components / ger	7 1 2
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, engineering	
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
<ul> <li>configuration with STEP 7 in the TIA Portal</li> </ul>	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
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• TFTP	Yes
• DCP	Yes
• LLDP	Yes
identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
I&M1 - higher level designation/location designation	Yes
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
product functions / diagnostics	
product function	
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
<ul><li>link check</li></ul>	No
<ul> <li>connection monitoring IP-Alive</li> </ul>	No
<ul> <li>localization via Aeroscout</li> </ul>	Yes
<ul><li>SysLog</li></ul>	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	165
protocol / is supported  • STP/RSTP	Yes
• MSTP	Yes
• RSTP	Yes
product functions / security	
product function	
ACL - MAC-based	Yes
management security, ACL-IP based	Yes
• IEEE 802.1x (radius)	Yes
• NAT/NAPT	Yes
<ul> <li>access protection according to IEEE802.11i</li> </ul>	Yes
WPA/WPA2	Yes
• TKIP/AES	Yes
protocol / is supported	
• SSH	Yes
• RADIUS	Yes
product functions / time	
protocol / is supported	
• NTP	Yes
• SNTP	Yes
<ul> <li>SIMATIC time synchronization (SIMATIC Time)</li> </ul>	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, FM16US0205X
<ul> <li>for safety / from CSA and UL</li> </ul>	UL 60950-1 E115352, CSA C22.2 No. 60950-1
certificate of suitability	
EC Declaration of Conformity	Yes
CE marking	Yes
• C-Tick	Yes
• E1 approval	Yes
railway application in accordance with EN 50155	Yes
railway application in accordance with EN 50121-4	Yes
• fire protection in accordance with EN 45545-2	Yes
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• NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	No
<ul> <li>Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	Yes
<ul> <li>Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	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
reference code	Ŭ
<ul> <li>according to IEC 81346-2:2019</li> </ul>	KFE
standards, specifications, approvals / marine classification	
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
	Yes
Lloyds Register of Shipping (LRS)      Nippen (Giii Kupkei (NK))	
Nippon Kaiji Kyokai (NK)      Dalaki Baisata Statusus (DDS)	Yes
Polski Rejestr Statkow (PRS)	Yes
Royal Institution of Naval Architects (RINA)	Yes
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
• 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 E240480
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
• as marking	Ex nA IIC T4 Gc
standards, specifications, approvals / Environmental Product De	eclaration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	195.92 kg
<ul> <li>during manufacturing</li> </ul>	29.7 kg
during operation	166.06 kg
after end of life	0.16 kg
further information / internet links	
internet link	
to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
to web page: WLAN country approval	https://www.siemens.com/wireless-approvals
• to the website: IWLAN	https://www.siemens.com/iwlan
to website: Industrial communication	https://www.siemens.com/simatic-net
to web page: SiePortal	https://sieportal.siemens.com/
to web page. Sier ortal     to website: Image database	https://www.automation.siemens.com/bilddb
	https://www.siemens.com/cax
to website: CAx-Download-Manager     to website: Industry Online Support	https://support.industry.siemens.com
• to website: Industry Online Support security information	iittps://support.iiiuusti.y.siciiieiis.coiii
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is

necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

#### Approvals / Certificates

## **General Product Approval**

For use in hazardous locations



Declaration of Conformity







<u>FM</u>

For use in hazardous locations Radio Equipment Type Approval Certificate

Marine / Shipping

CCC-Ex

**Miscellaneous** 









Marine / Shipping

NK / Nippon Kaiji Kyokai





Confirmation

Railway

Confirmation

**Environment** 

last modified:

2/8/2025

