# **SIEMENS**

## Data sheet

# 6GK5788-1GY01-0AA0



IWLAN access point, SCALANCE W1788-1 M12, 1 radio, 4 N-CON antenna port, iFeatures support via CLP, IEEE 802.11a/b/g/h/n/ac, 2.4/5 GHz, gross 1733 Mbit/s per radio, 2x M12 max. 1 Gbit/s, PoE, redundant 24 V DC,M12 A-coded IP65, -20..+70 °C, CLP slot, WPA2/802.11i/e, observe national approvals! CERT ID: RAPAC-W1-M12-E4, includes: MPCIE-R1-ABGNAC-U4 Scope of delivery: Manuals on DVD, German/English, M12 sealing caps, for operation outside of USA/Israel

Transfer rate	
Transfer rate	
<ul><li>with WLAN / maximum</li></ul>	1733 Mbit/s
• for Industrial Ethernet	10, 100, 1000 Mbit/s
Transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	1000 Mbit/s
Interfaces	
Number of electrical/optical connections / for network	2

Interfaces	
Number of electrical/optical connections / for network components or terminal equipment / maximum / Note	2
Number of electrical/optical connections / for gigabit Ethernet / maximum	2
Number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	2
• for power supply	1
<ul> <li>for redundant voltage supply</li> </ul>	1
Type of electrical connection	
• for network components or terminal equipment	M12 interface (8-pole, X-coded), PoE

• for power supply	M12 interface (4-pole, A-coded)
design of the removable storage	
• CLP	Yes
• CLP iFeatures	Yes
Interfaces / wireless	
Number of radio cards / permanently installed	1
Transmission mode / for multiple input multiple output (MIMO)	4x4
Number of spatial streams	4
Number of electrical connections / for external antenna(s)	4
Type of electrical connection / for external antenna(s)	N-Connect (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	
<ul> <li>from M12 Power Connector (A-coded) for redundant power supply</li> </ul>	16.8 V
Supply voltage / 2	
<ul> <li>from M12 Power Connector (A-coded) for redundant power supply</li> </ul>	31.2 V
Supply voltage	
<ul> <li>from Power-over-Ethernet acc. to IEEE802.3at for type 2</li> </ul>	48 V
Consumed current	
• at DC / at 24 V / typical	0.375 A
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 2 / typical</li> </ul>	0.21 A
Power loss [W]	
• at DC / at 24 V / typical	10.1 W
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 2 / typical</li> </ul>	9 W
Ambient conditions	
Ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +70 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	90 %
Protection class IP	IP65
Design, dimensions and weights	

Width	258 mm
Height	258 mm
Depth	80 mm
Width / of the enclosure / without antenna	258 mm
Height / of the enclosure / without antenna	258 mm
Depth / of the enclosure / without antenna	80 mm
Net weight	2.7 kg
Mounting type	
<ul> <li>S7-300 rail mounting</li> </ul>	Yes
• S7-1500 rail mounting	Yes
• 35 mm 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 / general	
Product function / Access Point Mode	Yes
Product function / Client Mode	Yes
Number of SSIDs	8
Product function	
• iPCF Access Point	No
• iPCF client	No
• iPCF-MC Access Point	No
• iPCF-MC client	No
Product function / iREF	No
Product function / iPRP	Yes

Product functions / management, configuration, engineering	
Product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
MIB support	Yes
• TRAPs via email	Yes
<ul> <li>Configuration with STEP 7</li> </ul>	Yes
<ul> <li>configuration with STEP 7 in the TIA Portal</li> </ul>	Yes
<ul> <li>operation with IWLAN controller</li> </ul>	No
<ul> <li>forced roaming with IWLAN</li> </ul>	Yes
<ul> <li>forced roaming on IP down with IWLAN</li> </ul>	Yes
<ul> <li>forced roaming on link down with IWLAN</li> </ul>	No
• WDS	Yes
Protocol / is supported	

<ul> <li>Address Resolution Protocol (ARP)</li> </ul>	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	Yes
Identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul> <li>I&amp;M1 – higher-level designation/location</li> </ul>	Yes
designation	
Product functions / Diagnostics	
Product function	
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2c	Yes
• SNMP v3	Yes
Product functions / VLAN	
Product function	
<ul><li>function VLAN with IWLAN</li></ul>	Yes
Product functions / DHCP	Yes
Product functions / DHCP	Yes
Product functions / DHCP Product function	
Product functions / DHCP Product function  • DHCP client	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 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 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	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	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	Yes Yes Yes Yes Yes Yes Yes Yes Yes No No Yes Yes No

• TKIP/AES	Yes
Protocol / is supported	165
• SSH	Yes
• RADIUS	Yes
Product functions / time	
Protocol / is supported	V
• 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
Certificate of suitability	
<ul> <li>EC declaration of conformity</li> </ul>	Yes
• CE marking	Yes
• C-Tick	Yes
● E1 approval	Yes
• IEC 61850-3	No
<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
● IEEE 802.11ac	Yes
Wireless approval	You will find the current list of countries at:
	www.siemens.de/funkzulassungen
accessories	
accessories	pre-assembled holder for attachment to a DIN rail
Further information / Internet-Links	
Internet-Link  • to website: TIA Selection Teel	http://www.siemens.com/tia-selection-tool
<ul> <li>to website: TIA Selection Tool</li> <li>to the website: IWLAN</li> </ul>	http://www.siemens.com/iwlan
	https://mall.industry.siemens.com
to website: Industry Mall     to website: Information and Download Contar.	http://www.siemens.com/industry/infocenter
to website: Information and Download Center	
• to website: Image database	http://automation.siemens.com/bilddb

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/cax

https://support.industry.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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