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

Transmission rate	
Transfer rate	
with WLAN / maximum	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 gigabit	2
Ethernet / maximum	
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 	M12 interface (8-pole, X-coded), PoE
for power supply	M12 interface (4-pole, A-coded)
design of the removable storage	

• C-PLUG	No
• KEY-PLUG	No
• CLP	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	
 from M12 Power Connector (A-coded) for redundant power supply 	16.8 V
Supply voltage / 2	
 from M12 Power Connector (A-coded) for redundant power supply 	31.2 V
Supply voltage	
 from Power-over-Ethernet acc. to IEEE802.3at for type 2 	48 V
Consumed current	
• at DC / at 24 V / typical	0.375 A
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	0.21 A
Power loss [W]	
• at DC / at 24 V / typical	10.1 W
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	9 W

Permitted ambient conditions	
Ambient temperature	
 during operation 	-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 weight	
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	
• 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
 for WLAN in 5 GHz frequency band
 4.9 ... 5.8 GHz

Product properties, functions, components / general	
Product function / Access Point Mode	Yes
Product function / Client Mode	No
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	No

Product functions / management, configuration	
Product function	
• 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
 forced roaming with IWLAN 	Yes
 forced roaming on IP down with IWLAN 	Yes
 forced roaming on link down with IWLAN 	No
• 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 	Yes
designation	
Product functions / Diagnosis	
Product function	
 PROFINET IO diagnosis 	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2c	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	
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 • RADIUS Yes

Product functions / Time Protocol / is supported • NTP • SNTP • SIMATIC time synchronization (SIMATIC Time) Yes Yes

Standards, specifications, approvals	
Certificate of suitability	
 EC declaration of conformity 	Yes
• CE marking	Yes
• C-Tick	Yes
• IEC 61850-3	No
• NEMA4X	No
Power-over-Ethernet according to IEEE802.3at	Yes
for type 2	
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

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

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)

last modified:

07/06/2019