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Data sheet

6GK5788-2GY01-0AA0



IWLAN access point, SCALANCE W1788-2 M12, 2 radios, 8 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-W2-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	
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	

Interfaces	
Number of electrical/optical connections / for network	2
components or terminal equipment / maximum / Note	
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	
• CLP	Yes
CLP iFeatures	Yes
Interfaces / wireless	
Number of radio cards / permanently installed	2
Transmission mode / for multiple input multiple output (MIMO)	4x4
Number of spatial streams	4
Number of electrical connections / for external antenna(s)	8
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	0.7 A
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	0.385 A
Power loss [W]	
• at DC / at 24 V / typical	16.8 W
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	18.5 W
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 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	
 S7-300 rail mounting 	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	16
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
 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 / Diagnostics	
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	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	
 EC declaration of conformity 	Yes
CE marking	Yes
• C-Tick	Yes
● E1 approval	Yes
• IEC 61850-3	No
 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
● 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
 to website: TIA Selection Tool to the website: IWLAN 	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

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