SIEMENS

Data sheet

6GK5788-2HY01-0AA0



IWLAN access point, SCALANCE W1788-2IA M12, 2 radios, 8 internal antennas, 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-I4, includes: MPCIE-R1-ABGNAC-U4 Scope of delivery: Manuals on DVD, German/English, 1x terminal block; 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	
Number of electrical/optical connections / for network	2
components or terminal equipment / maximum / Note	
Number of electrical/optical connections / for gigabit Ethernet / maximum	2
Number of electrical connections	
for network components or terminal equipment	2
• for power supply	-
 for redundant voltage supply 	1
Type of electrical connection	
	M12 interface (8 pole X coded) PoE
 for network components or terminal equipment 	M12 interface (8-pole, X-coded), PoE

design of the removable storage CLP Ves CLP iFatures Yes Interfaces / wireless Number of radio cards / permanently installed 2 Transmission modo / for multiple input multiple output (MIMO) Number of spatial streams 4 Number of spatial streams 4 Number of of spatial streams 4 Number of internal antennas 8 Type of electrical connection / for external antenna(s) No Product feature / external antenna can be mounted No Supply voltage, current consumption, power loss Type of voltage / 0 from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 1 from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 from Power-over-Ethernet acc. to IEEE802.3at for type 2 form Power-over-Ethernet according to IEEEE802.3at for type 2 / typical et DC / at 24 V / typical at DC / at 24 V / typical with Power-over-Ethernet according to IEEEE802.3at for type 2 / typical for type 2 / typical	• for power supply	M12 interface (4-pole, A-coded)
• CLP Features Yes Interfaces / vireless 2 Number of radio cards / permanently installed 2 Transmission mode / for multiple input multiple output (MIMO) 4x4 Number of spatial streams 4 Number of internal antennas 8 Type of electrical connection / for external antennas(s) N-Connect (socket) Product feature / external antenna can be mounted No directly on device DC Supply voltage / of the supply voltage DC Supply voltage / 1 (for m12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 if om M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 if om M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 0.7 A if om M12 Power Connector (A-coded) for redundant power supply 31.2 V Supply voltage 0.7 A if on the 2 Power connector (A-coded) for redundant power supply 0.7 A Supply voltage 0.7 A if on the 2 Power connector (A-coded) for redundant power supply 0.385 A IEEE802.3at for type 2 / typical 16.8 W i at DC / at 24 V / typical 0.7 A i with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 16.8 W i with Power-over-Ethernet according to	design of the removable storage	
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Ambient conditions Ambient temperature • during operation • during storage • during transport • during transport Protection class IP Design, dimensions and weights	 with Power-over-Ethernet according to 	18.5 W
Ambient temperature• during operation• during storage• during transport• during transport-40 +85 °C• during transport-40 +85 °CRelative humidity / at 25 °C / without condensation / during operation / maximumProtection class IPIP65Design, dimensions and weights	IEEE802.3at for type 2 / typical	
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• during transport -40 +85 °C Relative humidity / at 25 °C / without condensation / during operation / maximum 90 % Protection class IP IP65 Design, dimensions and weights IP65	• during operation	-20 +70 °C
Relative humidity / at 25 °C / without condensation / 90 % during operation / maximum 90 % Protection class IP IP65 Design, dimensions and weights IP65	• during storage	-40 +85 °C
during operation / maximum Protection class IP Design, dimensions and weights	• during transport	-40 +85 °C
Protection class IP IP65 Design, dimensions and weights IP65	Relative humidity / at 25 °C / without condensation /	90 %
Design, dimensions and weights	during operation / maximum	
	Protection class IP	IP65
	Design, dimensions and weights	
		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	
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	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 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

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