SIEMENS

Datasheet

6GK5788-2GD00-0TA0



IWLAN ACCESS POINT, SCALANCE W788-2 M12 EEC, FOR USE OUTSIDE OF USA, 2 RADIOS,6 N-CON. ANT.CONNECT., IEEE 802.11A/B/G/H/N, 2.4/5GHZ, GROSS 450 MBIT/S PER RADIO, 1 X M12 (MAX. 1 GBIT/S), POE, 24VDC, IP65 (-40-+70 DGR C), CONFORMAL COATING POE, WPA2/802.11I/E, EN50155 PLEASE NOTE NATIONAL APPROVALS! SCOPE OF SUPPLY: MANUALS ON CD-ROM, GERMAN/ENGLISH

Transmission rate	
Transfer rate	
 with WLAN / maximum 	450 Mbit/s
 for Industrial Ethernet 	10 Mbit/s, 1000 Mbit/s
Interfaces	
Number of electrical connections	
 for network components or terminal equipment 	1
• for power supply	1
 for redundant voltage supply 	1
Design of the 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	Yes
• KEY-PLUG	Yes
Interfaces / wireless	
Number of radio cards / permanently installed	2
Transmission mode / for multiple input multiple output	3x3
(MIMO)	
Number of spatial streams	3
Number of electrical connections / for external	6
antenna(s)	
Design of the electrical connection / for external antenna(s)	N-Connect (socket)

Product property / external antenna can be mounted	Yes
directly on device	

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Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage / 1	
 from M12 Power Connector (A-coded) for 	19.2 V
redundant power supply	
Supply voltage / 2	
 from M12 Power Connector (A-coded) for 	28.8 V
redundant power supply	
Supply voltage	
 from Power-over-Ethernet acc. to IEEE802.3at 	48 V
for type 1 and IEEE802.3af	
 from Power-over-Ethernet acc. to IEEE802.3at 	50 V
for type 2	
Consumed current	
 for DC / at 24 V / typical 	0.63 A
 with Power-over-Ethernet according to 	0.22 A
IEEE802.3at for type 1 and IEEE802.3af / typical	
 with Power-over-Ethernet according to 	0.3 A
IEEE802.3at for type 2 / typical	
Active power loss	
 for DC / at 24 V / typical 	15 W
 with Power-over-Ethernet according to 	10.7 W
IEEE802.3at for type 1 and IEEE802.3af / typical	
 with Power-over-Ethernet according to 	15 W
IEEE802.3at for type 2 / typical	
Permitted ambient conditions	
Ambient temperature	
 during operation 	-40 +70 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
Relative humidity / at 25 °C / without condensation /	100 %
during operation / maximum	
Product property / conformal coating	Yes
Ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE
·	W788-x or W748-x 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	IP65
Design, dimensions and weight	
Width / of the enclosure / without antenna	200 mm
Height / of the enclosure / without antenna	176 mm

Depth / of the enclosure / without antenna	79 mm
Net weight	1.7 kg
Mounting type	For mounting on 35 mm DIN rail, an additional mounitng adapter is required
 S7-300 rail mounting 	Yes
 S7-1500 rail mounting 	Yes
 wall mounting 	Yes
Wireless frequencies	
Radio frequency	
 for WLAN in 2.4 GHz frequency band 	2.41 2.48 GHz

4.9 ... 5.8 GHz

• for WLAN in 5 GHz frequency band

Product properties, functions, components / genera	
Product function / Access Point Mode	Yes
Product function / Client Mode	Yes
Number of SSIDs	16
Product function	
Dual Client	No
iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
● iPCF client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
 iPCF-MC Access Point 	No; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF-MC client	No; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
Number of iPCF-capable radio modules	0
Product function / iREF	No; In combination only with 'KEY-PLUG W780 iFeatures'
Number of iREF-capable radio modules	0

Product functions / management, configuration	
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 	No
 configuration with STEP 7 in the TIA Portal 	No
 operation with IWLAN controller 	No
 operation with Enterasys WLAN controller 	No
 forced roaming with IWLAN 	Yes
• 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	No
Link Check	No
 connection monitoring IP-Alive 	No
• SysLog	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
• in Client Mode / DHCP server via LAN	No
Product functions / Redundancy	
Protocol / is supported	
• STP/RSTP	Yes
Product functions / Security	
Product function	
 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
Product functions / Time	
Protocol / is supported	
• SNTP	Yes
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
● for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
 for safety / from CSA and UL 	UL 60950-1 CSA C22.2 No. 60950-1
 for hazardous zone / 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
Certificate of suitability	
 EC declaration of conformity 	Yes
CE marking	Yes
• C-Tick	Yes
• CCC	No
• E1 approval	Yes
 Railway application in accordance with EN 50155 	Yes
• Fire protection in accordance with EN 45545-2	No
• NEMA TS2	Yes
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	No
 Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	Yes
 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
Wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
Marine classification association	

 American Bureau of Shipping Europe Ltd. (ABS) 	No
 Bureau Veritas (BV) 	No
 Det Norske Veritas (DNV) 	No
 Germanische Lloyd (GL) 	No
 Lloyds Register of Shipping (LRS) 	No
 Nippon Kaiji Kyokai (NK) 	No
 Polski Rejestr Statkow (PRS) 	No

Accessories

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accesso	ries
40000000	1100

Further Information / Internet Links

Internet-Link

• to website: TIA Selection Toolhttp://www.siemens.com/tia-selection-tool• to the website: IWLANhttp://www.siemens.com/iwlan• to website: Industry Mallhttps://mall.industry.siemens.com• to website: Information and Download Centerhttp://www.siemens.com/automation/net/catalog• to website: Image databasehttp://automation.siemens.com/bilddb• to website: CAx Download Managerhttp://www.siemens.com/cax• to website: Industry Online Supporthttp://support.automation.siemens.com

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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. Third-
	party 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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