SIEMENS

Data sheet

product type designation

6GK5788-2GD00-0TA0

W788-2 M12 EEC

IWLAN Access Point, SCALANCE W788-2 M12 EEC, 2 radios, 6 N-CON antenna port, iFeatures support via key plug, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbit/s per radio, 1x M12 max. 1 Gbit/s, PoE, redundant 24 V DC,M12 A-coded IP65, -40..+70 °C, plug slot, WPA2/802.11i/e,conformal coating EN 50155, EN 45545, observe national approvals! CERT ID: RAPN-W2-M12-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: Manuals on CD-ROM, German/English, M12 sealing caps, for operation outside of USA/Israel

transfer rate	
transfer rate	
with WLAN / maximum	450 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 connections	
 for network components or terminal equipment 	1
 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	Yes
• KEY-PLUG	Yes
memory	
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 (MIMO)	3x3
number of spatial streams	3
number of electrical connections / for external antenna(s)	6
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	
 from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af 	48 V
 from Power-over-Ethernet according to IEEE802.3at for type 2 	50 V
consumed current	

• at DC / at 24 V / typical	0.63 A	
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	0.22 A	
with Power-over-Ethernet according to IEEE802.3at	0.3 A	
for type 2 / typical	0.5 A	
power loss [W]		
• at DC / at 24 V / typical	15 W	
 with Power-over-Ethernet according to IEEE802.3at 	10.7 W	
for type 1 and IEEE802.3af / typical		
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	15 W	
supply voltage / 1		
• from M12 Power Connector (A-coded) for redundant	16.8 V	
power supply		
supply voltage / 2		
 from M12 Power Connector (A-coded) for redundant 	31.2 V	
power supply		
ambient conditions		
ambient temperature		
during operation	-20 +60 °C	
during storage	-40 +85 °C	
during transport	-40 +85 °C 100 %	
relative humidity / at 25 °C / without condensation / during operation / maximum	100 %	
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 weights		
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	
product feature / conformal coating	Yes	
fastening method	For 35 mm DIN rail mounting an additional mounting adapter is required	
S7-300 rail mounting	Yes	
• S7-1500 rail mounting	Yes	
 35 mm top hat 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	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	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'	
iPCF-MC client	Yes; 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 function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only	
product functions / management, configuration, engineering		
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 	Yes
 configuration with STEP 7 in the TIA Portal 	Yes
operation with IWLAN controller	No
 operation with Enterasys WLAN controller 	No
 forced roaming on IP down with IWLAN 	Yes
 forced roaming on link down 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 designation 	Yes
product functions / diagnostics	
product function	
 PROFINET IO diagnosis 	Yes
link check	No
 connection monitoring IP-Alive 	No
 localization via Aeroscout 	Yes
SysLog	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
product functions / VI AN	
product functions / VLAN	
product function	Vec
product function • function VLAN with IWLAN	Yes
product function • function VLAN with IWLAN product functions / DHCP	Yes
product function • function VLAN with IWLAN product functions / DHCP product function	
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client	Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server	Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82	Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server	Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82	Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy	Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported	Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • STP/RSTP	Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP	Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP • RSTP product functions / security	Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP • RSTP product functions / security product function	Yes Yes Yes Yes Yes
product function • function VLAN with IWLAN 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
product function • function VLAN with IWLAN 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 functions / security product function • ACL - MAC-based • management security, ACL-IP based	Yes Yes Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • 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 Yes Yes Yes Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • 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
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • 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 • access protection according to IEEE802.11i	Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes
product function • function VLAN with IWLAN 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 • access protection according to IEEE802.11i • WPA/WPA2	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • 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 • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES	Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • 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 • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported	Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • 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 • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES	Yes Yes Yes Yes Yes Yes Yes Yes Yes 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
 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1
certificate of suitability	
 EC Declaration of Conformity 	Yes
CE marking	Yes
• C-Tick	Yes
 E1 approval 	Yes
 railway application in accordance with EN 50155 	Yes
 railway application in accordance with EN 50121-4 	Yes
 fire protection in accordance with EN 45545-2 	Yes
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
standards, specifications, approvals / marine classification	n
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	Yes
• DNV GL	Yes
 Korean Register of Shipping (KRS) 	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
Polski Rejestr Statkow (PRS)	Yes
 Royal Institution of Naval Architects (RINA) 	Yes
standards, specifications, approvals / hazardous environn	
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• 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 / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links Internet-Link	
to website: TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to web page: selection aid 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

• to website: Industry Online Support

security information

security information

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