SIEMENS

Data sheet

6GK5788-2GD00-0AB0

product type designation



IWLAN Access Point, SCALANCE W788-2 M12, 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, -20..+60 °C, plug slot, WPA2/802.11i/e, 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, only for operation in the USA.

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	

W788-2 M12 (USA)

 at DC / at 24 V / typical 	0.63 A	
 with Power-over-Ethernet according to IEEE802.3at 	0.22 A	
for type 1 and IEEE802.3af / typical		
with Power-over-Ethernet according to IEEE802.3at for time 2 / timical	0.3 A	
for type 2 / typical		
power loss [W]	15 \\\	
at DC / at 24 V / typical	15 W	
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	10.7 W	
with Power-over-Ethernet according to IEEE802.3at	15 W	
for type 2 / typical		
supply voltage / 1		
 from M12 Power Connector (A-coded) for redundant 	19.2 V	
power supply		
supply voltage / 2		
 from M12 Power Connector (A-coded) for redundant 	28.8 V	
power supply		
ambient conditions		
ambient temperature		
during operation	-20 +60 °C	
 during storage 	-40 +85 °C	
during transport	-40 +85 °C	
relative humidity / at 25 °C / without condensation / during	90 %	
operation / maximum	When used under begindene conditions (Zone 2), the COALANICE	
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	
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		
product function / Access Point Mode	Yes	
product function / Access Point Mode	Yes	
number of SSIDs	16	
product function		
iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'	
iPCF Access Point 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	2	
product function / iREF	No; In combination only with 'KEY-PLUG W780 iFeatures'	
number of iREF-capable radio modules	2	
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 beend menorement	Vec
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 / VLAN	
product function	
function VLAN with IWLAN	Yes
product functions / DHCP	
product function	
DHCP client	Vee
	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 	Yes
 management security, ACL-IP based 	Yes
• IEEE 802.1x (radius)	Yes
• NAT/NAPT	Yes
 access protection according to IEEE802.11i 	Yes
• WPA/WPA2	Yes
• TKIP/AES	Yes
protocol / is supported	
• SSH	Yes
RADIUS	Yes
product functions / time	

nratocal / is sunnarted	
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	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	No
Power-over-Ethernet according IEEE802.3at for	Yes
type 1 and IEEE802.3af	Yes
Power-over-Ethernet according to IEEE802.3at 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
wireless approval	For operation in the USA, you will find more information under: www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classificatio	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 environr	
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 	http://www.siemens.com/cax
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• to website: Industry Online Support

security information

security information

https://support.industry.siemens.com

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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