

## Data sheet

## 6GK5788-2GD00-0AB0

### product type designation



### W788-2 M12 (USA)

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, 2.4/5 GHz, gross 450 Mbps per radio, 1x M12 max. 1 Gbps, 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, FCC ID: LYHMPCIE1V1 scope of delivery: manuals on CD-ROM, German/English, M12 sealing caps, only for operation in the USA.

Technical Product Detail Page

<https://i.siemens.com/1P6GK5788-2GD00-0AB0>

### transfer rate

#### transfer rate

- with WLAN / maximum
- for Industrial Ethernet

450 Mbit/s

10, 100, 1000 Mbit/s

### interfaces

#### number of electrical connections

- for network components or terminal equipment
- for power supply
- for redundant voltage supply

1

1

1

#### type of electrical connection

- for network components or terminal equipment
- for power supply

M12 interface (8-pole, X-coded), PoE

M12 interface (4-pole, A-coded)

### memory

#### design of the removable storage

- C-PLUG
- KEY-PLUG

Yes

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
- from Power-over-Ethernet according to IEEE802.3at for type 2

48 V

50 V

#### consumed current

- at DC / at 24 V / typical
- with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical
- with Power-over-Ethernet according to IEEE802.3at for type 2 / typical

0.63 A

0.22 A

0.3 A

#### power loss [W]

• 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 for type 2 / typical	15 W
<b>supply voltage / 1</b>	
• from M12 Power Connector (A-coded) for redundant power supply	19.2 V
<b>supply voltage / 2</b>	
• from M12 Power Connector (A-coded) for redundant power supply	28.8 V
<b>ambient conditions</b>	
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 operation / maximum	90 %
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
<b>design, dimensions and weights</b>	
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 DIN-rail mounting	Yes
• wall mounting	Yes
<b>radio frequencies</b>	
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
<b>product features, product functions, product components / general</b>	
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	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
<b>product functions / management, configuration, engineering</b>	
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 WLAN 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 function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
<b>product functions / diagnostics</b>	
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
<b>product functions / VLAN</b>	
product function	
• function VLAN with IWLAN	Yes
<b>product functions / DHCP</b>	
product function	
• DHCP client	Yes
• DHCP server	Yes
• DHCP Option 82	Yes
<b>product functions / redundancy</b>	
protocol / is supported	
• STP/RSTP	Yes
• MSTP	Yes
• RSTP	Yes
<b>product functions / security</b>	
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
<b>product functions / time</b>	
protocol / is supported	
• NTP	Yes
• SNTP	Yes
• SIMATIC time synchronization (SIMATIC Time)	Yes

standards, specifications, approvals	
standard	<ul style="list-style-type: none"> <li>for FM</li> <li>for safety / from CSA and UL</li> </ul>
	<p>FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X</p> <p>UL 60950-1 E115352, CSA C22.2 No. 60950-1</p>
certificate of suitability	<ul style="list-style-type: none"> <li>EC Declaration of Conformity</li> <li>CE marking</li> <li>C-Tick</li> <li>E1 approval</li> <li>railway application in accordance with EN 50155</li> <li>railway application in accordance with EN 50121-4</li> <li>fire protection in accordance with EN 45545-2</li> <li>NEMA TS2</li> <li>IEC 61375</li> <li>IEC 61850-3</li> <li>NEMA4X</li> <li>Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af</li> <li>Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>
standard for wireless communication	<ul style="list-style-type: none"> <li>IEEE 802.11a</li> <li>IEEE 802.11b</li> <li>IEEE 802.11e</li> <li>IEEE 802.11g</li> <li>IEEE 802.11h</li> <li>IEEE 802.11i</li> <li>IEEE 802.11n</li> </ul>
wireless approval	For operation in the USA, you will find more information under: <a href="http://www.siemens.de/funkzulassungen">www.siemens.de/funkzulassungen</a>
standards, specifications, approvals / marine classification	
Marine classification association	<ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>French marine classification society (BV)</li> <li>DNV GL</li> <li>Korean Register of Shipping (KRS)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul>
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	<p>EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X</p> <p>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 E240480</p>
certificate of suitability / CCC / for hazardous zone according to GB standard	<p>Yes; GB3836.1, GB3836.8</p> <p>Ex nA IIC T4 Gc</p>
further information / internet links	
internet link	<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to web page: WLAN country approval</li> <li>to the website: WLAN</li> <li>to website: Industrial communication</li> <li>to web page: SiePortal</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>
security information	

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit [www.siemens.com/cybersecurity-industry](http://www.siemens.com/cybersecurity-industry). Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert>. (V4.7)

## Approvals / Certificates

### General Product Approval



EG-Konf.



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[China RoHS](#)

For use in hazardous locations	Radio Equipment Type Approval Certificate	Maritime application
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ATEX



IECEx

FM

[CCC-Ex](#)[Miscellaneous](#)

ABS

### Maritime application



[NK / Nippon Kaiji Kyokai](#)



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