# **SIEMENS**

## Data sheet

## 6GK5786-2HC00-0AA0



IWLAN Access Point, SCALANCE W786-2IA RJ45, 2 radios, 6
internal antennas, iFeatures support via key plug, IEEE
802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbit/s per radio, 1x RJ45 max.
1 Gbit/s, PoE, redundant 24 V DC, terminal block, 110 - 230 V AC via
PS791-2AC IP65, -40..+60 °C, plug slot, WPA2/802.11i/e, observe
national approvals! CERT ID: EAPN-W2-RJ-I3, includes: MPCIE-R1ABGN-U3, scope of delivery: Manuals on CD-ROM, German/English, 1x terminal block; for operation outside of USA/Israel

Transfer rate	
Transfer rate	
<ul> <li>with WLAN / maximum</li> </ul>	450 Mbit/s
<ul> <li>for Industrial Ethernet</li> </ul>	10, 100, 1000 Mbit/s
Transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	1000 Mbit/s
Interfaces	
Number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	1
<ul> <li>for power supply</li> </ul>	1
<ul> <li>for redundant voltage supply</li> </ul>	1
Type of electrical connection	
<ul> <li>for network components or terminal equipment</li> </ul>	RJ45 socket
• for power supply	2-pole connector (24 V DC) or optionally available power supply adapter (4-pole 24 V DC or 3-pole 110 to 230 V AC)
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 internal antennas	6
Antenna gain compared to spherical radiator / of the WLAN antenna	
<ul> <li>in the 2.4 GHz frequency band</li> </ul>	3 dB
<ul> <li>in the 5 GHz frequency band</li> </ul>	4 dB
Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage / 1	
<ul> <li>from terminal block</li> </ul>	19.2 V
Supply voltage / 2	
<ul> <li>from terminal block</li> </ul>	28.8 V
Supply voltage	
<ul> <li>from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	48 V
<ul> <li>from Power-over-Ethernet acc. to IEEE802.3at for type 2</li> </ul>	50 V
<ul> <li>from optional integrable power supply</li> </ul>	
— at AC	100 240 V
— at DC	12 24 V
Consumed current	
• at DC / at 24 V / typical	0.63 A
• at AC / at 230 V / typical	0.07 A
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical</li> </ul>	0.22 A
Power loss [W]	
• at DC / at 24 V / typical	15 W
• at AC / at 230 V / typical	15 W
<ul> <li>with Power-over-Ethernet according to</li> </ul>	15 W
IEEE802.3at for type 1 and IEEE802.3af / typical	
Ambient conditions	
Ambient temperature	
<ul> <li>during operation</li> </ul>	-40 +60 °C
<ul> <li>during storage</li> </ul>	-40 +85 °C
• during transport	-40 +70 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	100 %

Ambient condition / for operation	When using the 100 - 240 V AC power supply, an operating temperature of -40 °C to +60 °C is permissible
Protection class IP	IP65
Design, dimensions and weights	
Width / of the enclosure / without antenna	251 mm
Height / of the enclosure / without antenna	251 mm
Depth / of the enclosure / without antenna	72 mm
Net weight	2.24 kg
Mounting type	For mast mounting, 35 mm DIN rail mounting and S7-300 rail mounting, an additional support plate is required
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	No
• 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 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'
<ul> <li>iPCF-MC Access Point</li> </ul>	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	Yes; 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
 4

 • CLI
 Yes

 • web-based management
 Yes

 • MIB support
 Yes

 • TRAPs via email
 Yes

 • Configuration with STEP 7
 Yes

<ul> <li>configuration with STEP 7 in the TIA Portal</li> </ul>	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	Yes
designation	
Product functions / Diagnostics	
Product function	
PROFINET IO diagnosis	Yes
Link Check	No
<ul> <li>connection monitoring IP-Alive</li> </ul>	No
<ul> <li>localization via Aeroscout</li> </ul>	Yes
• SysLog	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Product functions / VLAN	
Product function	
	Yes
Product function <ul> <li>function VLAN with IWLAN</li> </ul> Product functions / DHCP	Yes
Product function • function VLAN with IWLAN Product functions / DHCP Product function	
Product function <ul> <li>function VLAN with IWLAN</li> </ul> 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

• STP/RSTP	Yes
• MSTP	Yes
• RSTP	Yes

Product functions / Security	
Product function	
ACL - MAC-based	Yes
<ul> <li>Management security, ACL-IP based</li> </ul>	Yes
• IEEE 802.1x (radius)	Yes
• NAT/NAPT	No
<ul> <li>access protection according to IEEE802.11i</li> </ul>	Yes
• WPA/WPA2	Yes
• TKIP/AES	Yes
Protocol / is supported	
• SSH	Yes
• RADIUS	Yes

Product functions / time	
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
<ul> <li>SIMATIC time synchronization (SIMATIC Time)</li> </ul>	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
<ul> <li>for hazardous zone</li> </ul>	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
<ul> <li>for safety / from CSA and UL</li> </ul>	UL 60950-1, CSA C22.2 No. 60950-1
<ul> <li>for hazardous zone / from CSA and UL</li> </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	
<ul> <li>EC declaration of conformity</li> </ul>	Yes
CE marking	Yes
• C-Tick	Yes
• E1 approval	Yes
<ul> <li>Railway application in accordance with EN 50155</li> </ul>	No
<ul> <li>Railway application in accordance with EN 50121-4</li> </ul>	No
• NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No

• NEMA4X	Yes
<ul> <li>Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	Yes
<ul> <li>Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	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	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
• Bureau Veritas (BV)	Yes
• DNV GL	Yes
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	Yes
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	Yes
<ul> <li>Royal Institution of Naval Architects (RINA)</li> </ul>	Yes
accessories	
accessories	24 V DC screw terminal included in scope of delivery

### Further information / Internet-Links

Internet-Link

- to website: TIA Selection Tool
- to the website: IWLAN
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

### Security information

http://www.siemens.com/tia-selection-tool

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

https://support.industry.siemens.com

http://www.siemens.com/iwlan https://mall.industry.siemens.com

http://www.siemens.com/cax

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