# SIEMENS

**Data sheet**  **6GK5786-2FC00-0AC0**



IWLAN access point, SCALANCE W786-2 RJ45, 2 radios, 6 R-SMA antenna connections, IEEE 802.11a/b/g/h/n, 2.4/5 GHz, gross 450 Mbit/s per radio, 1 x RJ45 (max. 1 Gbit/s), PoE, 24 V DC, IP65, (-40 to +60 °C), WPA2/802.11I/e, Observe national approval! (Cert. ID: EAPN-W2-RJ-E3) Includes MPCIE-R1-ABGN-U3 Scope of delivery: Manuals on CD, de/en 1 x terminal block, only for operation in Israel.

| transfer rate | |
|---|---|
| transfer rate | |
| ● with WLAN / maximum | 450 Mbit/s |
| ● for Industrial Ethernet | 10, 1000, 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 | 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 electrical connections / for external antenna(s) | 6 |
| type of electrical connection / for external antenna(s) | R-SMA (socket) |
| product feature / external antenna can be mounted directly on device | No |
| **supply voltage, current consumption, power loss** | |
| type of voltage / of the supply voltage | DC |
| supply voltage / 1 | |
| ● from terminal block | 19.2 V |
| supply voltage / 2 | |
| ● from terminal block | 28.8 V |
| supply voltage | |
| ● from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af | 48 V |
| ● from Power-over-Ethernet acc. to IEEE802.3at for type 2 | 50 V |

12.19.2020

| | |
|---|---|
| ● from optional integrable power supply | |
| — 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 |
| ● with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical | 0.22 A |
| power loss [W] | |
| ● at DC / at 24 V / typical | 15 W |
| ● at AC / at 230 V / typical | 15 W |
| ● with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical | 10.7 W |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -40 ... +60 °C |
| ● during storage | -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 |
| fastening method | 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 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 | 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 | |
| ● CLI | Yes |
| ● web-based management | Yes |
| ● MIB support | Yes |

12.19.2020

| | |
|---|---|
| ● 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 | 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 | No |
| ● access protection according to IEEE802.11i | Yes |
| ● WPA/WPA2 | Yes |
| ● TKIP/AES | Yes |
| **protocol / is supported** | |
| ● SSH | Yes |
| ● RADIUS | Yes |

## product functions / time

12.19.2020

| | |
|---|---|
| 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 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 |
| certificate of suitability | |
| ● EC Declaration of Conformity | Yes |
| ● CE marking | Yes |
| ● C-Tick | Yes |
| ● E1 approval | Yes |
| ● railway application in accordance with EN 50155 | No |
| ● railway application in accordance with EN 50121-4 | Yes |
| ● NEMA TS2 | No |
| ● IEC 61375 | No |
| ● IEC 61850-3 | No |
| ● NEMA4X | Yes |
| ● 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 | For operation in the USA, you will find more information under: www.siemens.de/funkzulassungen |
| 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 |
| **accessories** | |
| accessories | 24 V DC screw terminal included in scope of delivery |
| **further information / internet-Links** | |
| Internet-Link | |
| ● to website: 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 |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| **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)

**last modified:**                                      12/16/2020 ↗