SIEMENS

Data sheet

6GK5788-2FC00-0AA0

product type designation



W788-2 RJ45

IWLAN Access Point, SCALANCE W788-2 RJ45, 2 radios, 6 R-SMA antenna port, 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, IP30, -20..+60 °C, plug slot, WPA2/802.11i/e, Signaling contact observe national approvals! CERT ID: RAPN-W2-RJ-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: Manuals on CD-ROM, German/English, 2x terminal blocks; 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 | RJ45 socket |
| • for power supply | 4-pole screw terminal, PoE |
| 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) | R-SMA (socket) |
| product feature / external antenna can be mounted directly on device | Yes |
| signal inputs/outputs | |
| number of digital inputs | 1 |
| number of digital outputs | 1 |
| type of electrical connection / at the digital inputs/outputs | 4-pole screw terminal |
| signal range / at digital input | 24 V DC, safety extra-low voltage |
| signal range / at digital output | 24 V DC / 1 A |
| | |

| supply voltage, current consumption, power loss | |
|--|---|
| type of voltage / of the supply voltage | DC |
| 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 |
| 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 for type 2 / typical | 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 |
| supply voltage / 1 | |
| from terminal block | 19.2 V |
| supply voltage / 2 | |
| from terminal block | 28.8 V |
| 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 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 | IP30 |
| design, dimensions and weights | |
| width / of the enclosure / without antenna | 200 mm |
| height / of the enclosure / without antenna | 158 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 |
| S7-300 rail mounting S7-1500 rail mounting | Yes |
| 35 mm top hat DIN rail mounting | Yes |
| wall mounting wall mounting | Yes |
| | 1 53 |
| radio frequencies | |
| operating frequency | 0.44 0.40 011 1 11 11 |
| • 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 / client Mode | Yes |
| number of SSIDs | 16 |
| product function | |
| iPCF Access PointiPCF client | Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' 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 iDCE canable radio modules | 2 |
|--|---|
| number of iPCF-capable radio modules | |
| product function / iREF number of iREF-capable radio modules | Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2 |
| product function / iPRP | Yes; In combination with the 'KEY-PLUG W780 iFeatures' only |
| | |
| product functions / management, configuration, engineeri | |
| number of manageable IP addresses / in client | 8 |
| product function • CLI | Yes |
| | Yes |
| web-based management MID support | Yes |
| MIB support 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 |
| | Yes |
| SNMP v1SNMP v2SNMP v3 | |
| SNMP v1SNMP v2 | Yes |
| SNMP v1SNMP v2SNMP v3 | Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN | Yes |
| • SNMP v1 • SNMP v2 • SNMP v3 product functions / VLAN product function | Yes Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN product function function VLAN with IWLAN | Yes Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN product function function VLAN with IWLAN product functions / DHCP | Yes Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN product function function VLAN with IWLAN product functions / DHCP product function | Yes Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN product function function VLAN with IWLAN product functions / DHCP product function DHCP client | Yes Yes Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN product function function VLAN with IWLAN product functions / DHCP product function DHCP client DHCP server | Yes Yes Yes Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN product function function VLAN with IWLAN product functions / DHCP product function DHCP client DHCP server DHCP Option 82 | Yes Yes Yes Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN product function function VLAN with IWLAN product functions / DHCP product function DHCP client DHCP server DHCP Option 82 product functions / redundancy | Yes Yes Yes Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN 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 Yes Yes Yes Yes Yes Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN 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 | Yes Yes Yes Yes Yes Yes Yes Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN 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 | Yes Yes Yes Yes Yes Yes Yes Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN 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 | Yes Yes Yes Yes Yes Yes Yes Yes |
| SNMP v1 SNMP v2 SNMP v3 product functions / VLAN 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 | Yes Yes Yes Yes Yes Yes Yes Yes |

| a management acquirity ACL ID based | Voc | |
|--|---|--|
| management security, ACL-IP based | Yes | |
| • IEEE 802.1x (radius) | Yes | |
| NAT/NAPT | No | |
| access protection according to IEEE802.11i | Yes | |
| WPA/WPA2 TYPE A TOP | Yes | |
| • TKIP/AES | Yes | |
| protocol / is supported | V. | |
| • SSH | Yes | |
| • RADIUS | 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 | No | |
| railway application in accordance with EN 50121-4 | No | |
| NEMA TS2 | No | |
| • 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 environments | | |
| standard / for hazardous zone | EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 | |
| from CSA and UL | ATEX 0145X | |

| certificate of suitability / CCC / for hazardous zone according to GB standard | Yes |
|--|---|
| accessories | |
| accessories | 24 V DC screw terminal and screw terminal for digital input and output included in the scope of delivery |
| 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 |
| 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) |

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