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## Data sheet 6GK5788-2GY01-0TA0

| | |
|---|---|
| **product type designation** | **W1788-2 M12 EEC** |



- - spare part - - IWLAN access point, SCALANCE W1788-2 M12 EEC, 2 radios, 8 N-CON antennas iFeatures support via CLP, IEEE 802.11 a/b/g/h/n/ac, 2.4/5 GHz, gross 1733 Mbps per radio, 2x M12 max. 1 Gbps, PoE, redundant 24 V DC,M12 A-coded IP65, -40..+75 °C, CLP slot, WPA2/802.11i/e,conformal coating EN 50155, EN 45545, observe national approvals! CERT ID: RAPAC-W2-M12-E4, includes: MPCIE-R1-ABGNAC-U4, scope of supply: M12 sealing caps; for operation outside of USA/Israel

| | |
|---|---|
| product brand name | SCALANCE |
| **transfer rate** | |
| transfer rate | |
| ● with WLAN / maximum | 1733 Mbit/s |
| ● for Industrial Ethernet | 10, 100, 1000 Mbit/s |
| **interfaces** | |
| number of electrical/optical connections / for network components or terminal equipment / maximum / note | 2 |
| number of electrical/optical connections / for gigabit Ethernet / maximum | 2 |
| number of electrical connections | |
| ● for network components or terminal equipment | 2 |
| ● 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) |
| **memory** | |
| design of the removable storage | |
| ● CLP | Yes |
| ● CLP iFeatures | Yes |
| **interfaces / wireless** | |
| number of radio cards / permanently installed | 2 |
| transmission mode / for multiple input multiple output (MIMO) | 4x4 |
| number of spatial streams | 4 |
| number of electrical connections / for external antenna(s) | 8 |
| 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 2 | 48 V |
| consumed current | |
| ● at DC / at 24 V / typical | 0.7 A |
| ● with Power-over-Ethernet according to IEEE802.3at for type 2 / typical | 0.385 A |
| power loss [W] | |


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| | |
|---|---|
| ● at DC / at 24 V / typical | 16.8 W |
| ● with Power-over-Ethernet according to IEEE802.3at for type 2 / typical | 18.5 W |
| **supply voltage / 1** | |
| ● from M12 Power Connector (A-coded) for redundant power supply | 16.8 V |
| **supply voltage / 2** | |
| ● from M12 Power Connector (A-coded) for redundant power supply | 31.2 V |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -40 ... +75 °C |
| ● during storage | -40 ... +85 °C |
| ● during transport | -40 ... +85 °C |
| relative humidity / at 25 °C / without condensation / during operation / maximum | 90 % |
| protection class IP | IP65 |
| **design, dimensions and weights** | |
| width | 258 mm |
| height | 258 mm |
| depth | 80 mm |
| width / of the enclosure / without antenna | 258 mm |
| height / of the enclosure / without antenna | 258 mm |
| depth / of the enclosure / without antenna | 80 mm |
| net weight | 2.7 kg |
| product feature / conformal coating | Yes |
| fastening method | Accessories are required for wall mounting and mounting on a mounting rail. |
| ● S7-300 rail mounting | Yes |
| ● S7-1500 rail mounting | Yes |
| ● 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 function / Access Point Mode | Yes |
| product function / client Mode | Yes |
| number of SSIDs | 16 |
| product function | |
| ● iPCF Access Point | No |
| ● iPCF client | No |
| ● iPCF-MC Access Point | No |
| ● iPCF-MC client | No |
| product function / iREF | No |
| product function / iPRP | Yes |
| **product functions / management, configuration, engineering** | |
| 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 IWLAN controller | No |
| ● forced roaming with IWLAN | Yes |
| ● forced roaming on IP down with IWLAN | Yes |
| ● forced roaming on link down with IWLAN | No |
| ● WDS | Yes |
| protocol / is supported | |


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|---|---|
| ● 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 |
| **product functions / diagnostics** | |
| product function | |
| ● PROFINET IO diagnosis | Yes |
| protocol / is supported | |
| ● SNMP v1 | Yes |
| ● SNMP v2c | 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 | No |
| ● 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** | |
| 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, FM16US0205X |
| ● for safety / from CSA and UL | IEC 62368-1, UL 60950-1 E115352-A6001 |
| certificate of suitability | |
| ● EC Declaration of Conformity | Yes |
| ● CE marking | Yes |
| ● C-Tick | Yes |
| ● E1 approval | Yes |


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|---|---|
| ● 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 |
| ● IEC 61850-3 | No |
| ● 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 |
| ● IEEE 802.11ac | Yes |
| wireless approval | You will find the current list of countries at: www.siemens.de/funkzulassungen |
| **standards, specifications, approvals / hazardous environments** | |
| standard / for hazardous zone | EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc |
| ● from CSA and UL | UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, E240480 |
| certificate of suitability / CCC / for hazardous zone according to GB standard | Yes; GB3836.1, GB3836.8 |
| ● as marking | Ex nA IIC T4 Gc |
| **accessories** | |
| accessories | pre-assembled holder for attachment to a DIN rail |
| **further information / internet links** | |
| internet link | |
| ● to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| ● to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to web page: WLAN country approval | https://www.siemens.com/wireless-approvals |
| ● to the website: IWLAN | https://www.siemens.com/iwlan |
| ● to website: Industrial communication | https://www.siemens.com/simatic-net |
| ● to web page: SiePortal | https://sieportal.siemens.com/ |
| ● to website: Image database | https://www.automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | https://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 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. 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

Declaration of Conformity | Manufacturer Declaration | China RoHS


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| General Product Approval | | | | For use in hazardous locations | |
|---|---|---|---|---|---|
| RCM | China RoHS | EG-Konf. | UKCA | ATEX | IECEx |

| For use in hazardous locations | | Radio Equipment Type Approval Certificate | | Railway |
|---|---|---|---|---|---|
| CCC-Ex | UL | Miscellaneous | Miscellaneous | Miscellaneous | Confirmation |

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