SIEMENS

## Data sheet 6GK5766-1GE00-3DA0

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|---|---|
| **product type designation** | **WUM766-1** |
| product description | IWLAN client module |



IWLAN client, SCALANCE WUM766-1 1 radio, 2.4/5 GHz, 2 N-Connect connections, iFeatures support via CLP, IEEE 802.11ax (Wi-Fi 6), 1201 Mbps (gross) per radio, 1x 10/100/1000 Mbps M12 socket X-encoded with PoE, redundant 24 V DC, M12 socket L-encoded; IP65, -30...+60 °C, CLP slot, DI/DQ, A-encoded, observe national approvals! CERT ID: MSAX65-W1-M12-E2, FCC ID: LYHMSAX65V1 operation outside of USA/Israel scope of supply: sealing caps for connections

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|---|---|
| product brand name | SCALANCE |
| Technical Product Detail Page | https://i.siemens.com/1P6GK5766-1GE00-3DA0 |
| suitability for use | www.siemens.com/iwlan |
| **transfer rate** | |
| transfer rate | |
| ● with WLAN / maximum | 1201 Mbit/s |
| ● for Industrial Ethernet | 10, 100, 1000 Mbit/s |
| **interfaces** | |
| number of electrical/optical connections / for network components or terminal equipment / maximum / note | 1 |
| number of electrical/optical connections / for gigabit Ethernet / maximum | 1 |
| 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 | M12 interface (8-pole, X-coded), PoE |
| ● for redundant voltage supply | M12 interface (4-pin, L-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) | 2x2 |
| number of spatial streams | 2 |
| number of electrical connections / for external antenna(s) | 2 |
| type of electrical connection / for external antenna(s) | N-Connect (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 | M12 interface (4-pin, A-coded) |
| input voltage / at digital input / at DC | -30 ... +30 V |
| output voltage / at digital output / at DC / maximum | 24 V; 0,5 A |
| operational current / of the signaling contacts / at DC / at 30 V / | 0.008 A |


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| maximum | |
| **supply voltage, current consumption, power loss** | |
| type of voltage / of the supply voltage | Redundant 24 V DC Power Supply, M12, L-coded |
| supply voltage | |
| ● from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af | 48 V |
| consumed current | |
| ● at DC / at 24 V | 0.55 A |
| ● at DC / at 24 V / sleep mode / maximum | 0.013 A |
| ● with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical | 0.27 A |
| power loss [W] | |
| ● at DC / at 24 V | 13.2 W |
| ● at DC / at 24 V / sleep mode / maximum | 0.3 W |
| ● with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical | 12.96 W |
| **supply voltage / 1** | |
| ● from M12 power Connector (L-coded) for redundant voltage supply | 24 V |
| **supply voltage / 1 / rated value** | 24 V |
| ● type of voltage / 1 / of the supply voltage | DC |
| **supply voltage / 2** | |
| ● from M12 power Connector (L-coded) for redundant voltage supply | 24 V |
| **supply voltage / 2 / rated value** | 24 V |
| ● type of voltage / 2 / of the supply voltage | DC |
| **supply voltage / 3 / rated value** | 48 V |
| ● type of voltage / 3 / of the supply voltage | DC, PoE |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -30 ... +60 °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 | 150 mm |
| height | 179.5 mm |
| depth | 45 mm |
| width / of the enclosure / without antenna | 150 mm |
| height / of the enclosure / without antenna | 179.5 mm |
| depth / of the enclosure / without antenna | 45 mm |
| net weight | 1.1 kg |
| fastening method | wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. |
| ● S7-300 rail mounting | Yes |
| ● S7-1500 rail mounting | Yes |
| ● 35 mm DIN-rail mounting | Yes |
| ● wall mounting | Yes |
| ● VESA mounting | Yes; 75 x 75mm |
| **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 | No |
| product function / client Mode | Yes |
| number of SSIDs | 1 |
| product function | |
| ● iPCF Access Point | No |


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| ● iPCF-2 access point | Yes; iPCF-2 is not compatible with iPCF. See documentation for function description. |
| ● iPCF client | No |
| ● iPCF-2 client | Yes; iPCF-2 is not compatible with iPCF. See documentation for function description. |
| product function / iPRP | Yes |
| **product functions / management, configuration, engineering** | |
| number of manageable IP addresses / in client | 2 |
| 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 |
| ● WDS | No |
| 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 |
| **product functions / diagnostics** | |
| product function | |
| ● PROFINET IO diagnosis | 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 |
| number of VLANs / maximum | 24 |
| **product functions / DHCP** | |
| product function | |
| ● DHCP client | Yes |
| **product functions / redundancy** | |
| protocol / is supported | |
| ● STP/RSTP | Yes |
| ● MSTP | Yes |
| ● RSTP | Yes |
| product function | |
| ● redundancy procedure MSTP | Yes |
| **product functions / security** | |
| product function | |
| ● management security, ACL-IP based | No |
| ● IEEE 802.1x (radius) | Yes |
| ● NAT/NAPT | Yes |
| ● access protection according to IEEE802.11i | Yes |
| ● WPA/WPA2 | Yes |
| ● WPA3 | Yes |


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| ● TKIP/AES | Yes |
| ● RADIUS client | Yes |
| protocol / is supported | |
| ● SSH | Yes |
| key length | |
| ● with SSL | 4096 bit |
| **product functions / time** | |
| protocol / is supported | |
| ● NTP | Yes |
| ● SNTP | Yes |
| ● SIMATIC time synchronization (SIMATIC Time) | Yes |
| **standards, specifications, approvals** | |
| certificate of suitability | |
| ● EC Declaration of Conformity | Yes |
| ● CE marking | Yes |
| ● E1 approval | Yes |
| ● Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af | 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 |
| ● IEEE 802.11ax | Yes |
| ● IEEE 802.11r | Yes |
| wireless approval | You will find the current list of countries at: www.siemens.com/wireless-approvals or directly on the device |
| MTBF | 24 a |
| | |
| ● reference temperature | 40 °C |
| **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, UL File E240480 |
| **standards, specifications, approvals / Environmental Product Declaration** | |
| Environmental Product Declaration | Yes |
| global warming potential [CO2 eq] | |
| ● total | 394.89 kg |
| ● during manufacturing | 33.7 kg |
| ● during operation | 361 kg |
| ● after end of life | 0.19 kg |
| **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 |


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## Approvals / Certificates

### General Product Approval

Declaration of Conformity | Manufacturer Declaration | China RoHS

### General Product Approval | For use in hazardous locations

Type Examination Certificate | Miscellaneous | China RoHS

### For use in hazardous locations | Radio Equipment Type Approval Certificate

CCC-Ex | Miscellaneous | Miscellaneous

### Radio Equipment Type Approval Certificate | Environment

Miscellaneous | Miscellaneous

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