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Data sheet 6GK5766-1GE00-7DC0

product type designation	**WAM766-1 (USA)**
product description	IWLAN Access Point



IWLAN access point, SCALANCE WAM766-1, 1 radio, 2.4/5 GHz, IEEE 802.11ax (Wi-Fi 6), 2 N-Connect connections, iFeatures support via CLP, 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, operation in Egypt and Israel. scope of supply: sealing caps for connections

product brand name	SCALANCE
Technical Product Detail Page	https://i.siemens.com/1P6GK5766-1GE00-7DC0
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
number of radio interfaces / parallel operable	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

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operational current / of the signaling contacts / at DC / at 30 V / maximum	0.008 A
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	Yes
product function / client Mode	Yes
number of SSIDs	8
product function	

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● iPCF Access Point	No
● 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

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● WPA3	Yes
● 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.

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Approvals / Certificates

General Product Approval					For use in hazardous locations
China RoHS	Type Examination Certificate	Miscellaneous	China RoHS	CE EG-Konf.	CCC-Ex

For use in hazardous locations	Radio Equipment Type Approval Certificate	Environment
UL	Miscellaneous	EPD

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