SIEMENS

Data sheet

6GK5766-1GE00-7DA0



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, redundant 24 V DC, M12 L-coded , PoE, IP65, -30...+60 °C, CLP slot, DI/DO, A-coded, observe national approvals! CERT ID: MSAX65-W1-M12-E2, FCC ID: LYHMSAX65V1 operation outside of USA/Israel scope of delivery: sealing caps for connections

transfer rate	
transfer rate	
with WLAN / maximum	1201 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/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)
design of the removable storage	
• CLP	Yes
CLP iFeatures	Yes
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)
signal range / at digital input	-30 V DC 30 V
signal range / at digital output	24 V / 0.5 A DC
operational current / of the signaling contacts / at DC / at	0.008 A

30 V / 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	
at DC / at 24 V / typical	0.55 A	
 with Power-over-Ethernet according to IEEE802.3at 	0.27 A	
for type 1 and IEEE802.3af / typical	0.27 A	
power loss [W]		
• at DC / at 24 V / typical	13.2 W	
with Power-over-Ethernet according to IEEE802.3at	12.96 W	
for type 1 and IEEE802.3af / typical		
supply voltage / 1		
 from M12 power Connector (L-coded) for redundant 	24 V	
voltage supply		
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 	24 V	
voltage supply		
supply voltage / 2 / rated value	24 V	
 type of voltage / 2 / of the supply voltage 	DC	
supply voltage / 3 / rated value	48 V	
ambient conditions		
ambient temperature		
 during operation 	-30 +60 °C	
 during storage 	-40 +85 °C	
during transport	-40 +85 °C	
relative humidity / at 25 $^\circ\text{C}$ / without condensation / during	90 %	
operation / maximum		
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.	
35 mm top hat DIN rail mounting	Yes	
wall mounting	Yes	
VESA 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	1	
product function		
iPCF Access Point	No	
product function / iPRP	Yes	
product function		
automatic selection of the fastest transfer rate	Yes	
product functions / management, configuration, engineeri		
product function		

	Vec
• 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 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	Ver
• function VLAN with IWLAN	Yes 24
number of VLANs / maximum	24
number of VLANs / maximum product functions / DHCP	
number of VLANs / maximum product functions / DHCP product function	24
number of VLANs / maximum product functions / DHCP product function • DHCP client	
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy	24
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported	24 Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP	24 Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP	24 Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP	24 Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security	24 Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP • RSTP product functions / security product function	24 Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • management security, ACL-IP based	24 Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius)	24 Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT	24 Yes Yes Yes Yes No Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i	24 Yes Yes Yes Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2	24 Yes Yes Yes Yes Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES	24 Yes Yes Yes Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported	24 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported • SSH	24 Yes Yes Yes Yes Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported • SSH	24 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
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number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported • SSH product functions / time protocol / is supported • NTP	24 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported • SSH protocol / is supported • NTP • SNTP	24 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported • SSH product functions / time protocol / is supported • SNTP • SIMATIC time synchronization (SIMATIC Time)	24 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported • SSH protocol / is supported • STP supported • SSH protocol / is supported • STP • STP supported • STP • STP • SIMATIC time synchronization (SIMATIC Time) standards, specifications, approvals	24 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product function DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported • SSH product functions / time protocol / is supported • STP simported • SSH protocol / is supported • STP • STP • STP • STP • SIMATIC time synchronization (SIMATIC Time) standards, specifications, approvals certificate of suitability	24 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
number of VLANs / maximum product functions / DHCP product functions • DHCP client product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported • SSH product functions / time protocol / is supported • STRP SIMATIC time synchronization (SIMATIC Time) standards, specifications, approvals certificate of suitability • EC Declaration of Conformity	24 Yes Yes Yes Yes Yes Yes Yes Yes
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 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
wireless approval	You will find the current list of countries at: www.siemens.com/wireless- approvals or directly on the device
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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