SIEMENS

Data sheet

product type designation product description

6GK5766-1GE00-7DB0

	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, FCCID: LYHMSAXV, operation in the USA , scope of delivery: sealing caps for connections
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 / maximum	0.008 A
supply voltage, current consumption, power loss	

IWLAN Access Point



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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 width / of the enclosure / without antenna	45 mm 150 mm
height / of the enclosure / without antenna	179.5 mm
doptp / of the englocure / without entenne	
depth / of the enclosure / without antenna	45 mm
depth / of the enclosure / without antenna net weight fastening method	1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN
net weight fastening method	1.1 kg
net weight	1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter.
net weight fastening method • S7-300 rail mounting	1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. Yes
net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting	 1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. Yes Yes
net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm DIN-rail mounting	1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. Yes Yes Yes
net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm DIN-rail mounting • wall mounting	1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. Yes Yes Yes Yes
net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm DIN-rail mounting • wall mounting • VESA mounting	1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. Yes Yes Yes Yes
net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm DIN-rail mounting • wall mounting • VESA mounting radio frequencies	1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. Yes Yes Yes Yes
net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm DIN-rail mounting • wall mounting • VESA mounting radio frequencies operating frequency	1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. Yes Yes Yes Yes Yes; 75 x 75mm
net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm DIN-rail mounting • wall mounting • VESA mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band	1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. Yes Yes Yes Yes Yes Yes; 75 x 75mm 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm DIN-rail mounting • wall mounting • VESA mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band	 1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. Yes Yes Yes Yes Yes; 75 x 75mm
net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm DIN-rail mounting • wall mounting • VESA mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen	 1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. Yes Yes Yes Yes Yes; 75 x 75mm 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm DIN-rail mounting • wall mounting • wall mounting • VESA mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode	1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. Yes Yes Yes Yes Yes; 75 x 75mm 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals Yes
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net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm DIN-rail mounting • wall mounting • wall mounting • VESA mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point	1.1 kg wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter. Yes Yes Yes Yes Yes; 75 x 75mm 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals Yes Yes



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product function / iDDD	Vaa
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	103, 800, 10 120 01 400-1.2022
product function	Vee
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
• TKIP/AES	Yes
RADIUS client	Yes
protocol / is supported	
• SSH	Yes
key length	
• with SSL	4096 bit



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Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
You will find the current list of countries at: www.siemens.com/wireless- approvals or directly on the device
24 a
40 °C
KFE
EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc
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
eclaration
Yes
204.00 hrs
394.89 kg
33.7 kg
361 kg 0.19 kg
0.19 Kg
https://support.industry.siemens.com/cs/ww/en/view/109766358
https://www.siemens.com/tstcloud
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https://www.siemens.com/iwieless-approvals
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https://sieportal.siemens.com/
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Declaration of Con- formity tion CCC-Ex	Miscellaneous
Radio Equipment Type Approval Certi- ficate	
FCC	

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