## SIEMENS

## Data sheet

## 6GK5766-1GE00-7TB0

product type desig	gnation	
product description		IWLAN A
		IWLAN A Connect of Mbps (gro M12 L-co DI/DO, A- FCCID: L connectio
suitability for use		www.sie
ransfer rate		
transfer rate		

## WLAN Access Point

WLAN Access Point, SCALANCE WAM766-1 EEC, 1 radio, 2.4/5 GHz, 2 N-Connect connections, iFeatures support via CLP, IEEE 802.11ax (Wi-Fi 6), 1201 Abps (gross) per radio, 1x10/100/1000 Mbps M12 socket, redundant 24 V DC, A12 L-coded, PoE, for extended ambient conditions, IP65, -30...+75°C, CLP slot, DI/DO, A-coded, observe national approvals! cert ID: MSAX65-W1-M12-E2, FCCID: LYHMSAXV1, 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			
<ul> <li>for Industrial Ethernet</li> </ul>	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 network components or terminal equipment / maximum / note	1			
number of electrical/optical connections / for gigabit Ethernet / maximum	1			
number of electrical connections				
<ul> <li>for network components or terminal equipment</li> </ul>	1			
<ul> <li>for power supply</li> </ul>	1			
<ul> <li>for redundant voltage supply</li> </ul>	1			
type of electrical connection				
<ul> <li>for network components or terminal equipment</li> </ul>	M12 interface (8-pole, X-coded), PoE			
<ul> <li>for redundant voltage supply</li> </ul>	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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supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	Redundant 24 V DC Power Supply, M12, L-coded
supply voltage	
<ul> <li>from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	48 V
consumed current	
• at DC / at 24 V	0.55 A
<ul> <li>at DC / at 24 V / sleep mode / maximum</li> </ul>	0.013 A
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical</li> </ul>	0.27 A
power loss [W]	
• at DC / at 24 V	13.2 W
<ul> <li>at DC / at 24 V / sleep mode / maximum</li> </ul>	0.3 W
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical</li> </ul>	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	
<ul> <li>from M12 power Connector (L-coded) for redundant voltage supply</li> </ul>	24 V
supply voltage / 2 / rated value	24 V
<ul> <li>type of voltage / 2 / of the supply voltage</li> </ul>	DC
supply voltage / 3 / rated value	
type of voltage / 3 / of the supply voltage	DC, PoE
ambient conditions	
ambient temperature	
during operation	-30 +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	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
product feature / conformal coating	Yes
fastening method	wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter.
<ul> <li>S7-300 rail mounting</li> </ul>	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
<ul> <li>for WLAN in 2.4 GHz frequency band</li> <li>for WLAN in 5 GHz frequency band</li> </ul>	4.9 5.8 GHz; depending on the country approvals
product features, product functions, product components / gen	
product function / Access Point Mode	Yes
product function / client Mode	Yes
number of SSIDs	8
product function	
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			
<ul> <li>web-based management</li> </ul>	Yes			
MIB support	Yes			
TRAPs via email	Yes			
<ul> <li>configuration with STEP 7</li> </ul>	Yes			
<ul> <li>configuration with STEP 7 in the TIA Portal</li> </ul>	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				
	Vaa			
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				
<ul> <li>function VLAN with IWLAN</li> </ul>	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				
-	Vee			
redundancy procedure MSTP	Yes			
product functions / security				
product function				
<ul> <li>management security, ACL-IP based</li> </ul>	No			
• IEEE 802.1x (radius)	Yes			
• NAT/NAPT	Yes			
<ul> <li>access protection according to IEEE802.11i</li> </ul>	Yes			
• WPA/WPA2	Yes			
• WPA3	Yes			
• WPA3 • TKIP/AES	Yes Yes			

protocol / is supported	No.
• SSH	Yes
key length	4000 htt
• 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	
<ul> <li>EC Declaration of Conformity</li> </ul>	Yes
CE marking	Yes
• E1 approval	Yes
<ul> <li>railway application in accordance with EN 50155</li> </ul>	Yes
<ul> <li>railway application in accordance with EN 50121-4</li> </ul>	Yes
• fire protection in accordance with EN 45545-2	Yes
<ul> <li>Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	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
reference code	
according to IEC 81346-2:2019	KFE
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 De	eclaration
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	
<ul> <li>to website: Selection guide for cables and connectors</li> </ul>	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstcloud
<ul> <li>to web page: WLAN country approval</li> </ul>	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.automation.sremens.com/bioddb
to website: Industry Online Support	https://www.siemens.com/cax https://support.industry.siemens.com
security information	
	Signate provides products and colutions with industrial substance with functions
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		Radio Equipment Type Approval Certificate			
Declaration of Con- formity	Manufacturer Declara- tion	<u>CCC-Ex</u>		<u>Miscellaneous</u>	<u>FCC</u>		
Environment							
<u>Confirmation</u>	EPD						
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