

### product type designation

product description



IWLAN Access Point

IWLAN access point, SCALANCE WAM763-1, 1 radio, 2.4/5 GHz, IEEE 802.11ax (Wi-Fi 6), 2 R-SMA connections, iFeatures support via CLP, 1201 Mbps (gross) 4x10/100/1000 Mbps RJ45 ports, redundant 24 V DC, terminal block, IP30, -30..+60°C, CLP slot, DI/DO, terminal block, observe national approvals! CERT ID: MSAX-W1-RJ-E2 FCC ID: LYHMSAXV1 for operation in the USA scope of delivery: cover CLP slot, covers antenna connections, 3x terminal block

suitability for use

[www.siemens.com/iwlan](http://www.siemens.com/iwlan)

### transfer rate

transfer rate

- with WLAN / maximum
- for Industrial Ethernet

1201 Mbit/s  
10, 100, 1000 Mbit/s

transfer rate / for Industrial Ethernet

- minimum
- maximum

10 Mbit/s  
1000 Mbit/s

### interfaces

number of electrical/optical connections / for network components or terminal equipment / maximum / note

4

number of electrical/optical connections / for gigabit Ethernet / maximum

4

number of electrical connections

- for network components or terminal equipment
- for power supply
- for redundant voltage supply

4  
1  
1

type of electrical connection

- for network components or terminal equipment
- for power supply

RJ45 socket  
5-pole terminal block

### memory

design of the removable storage

- CLP
- CLP iFeatures

Yes  
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)

R-SMA (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

2-pole terminal block in each case

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

maximum	
<b>supply voltage, current consumption, power loss</b>	
type of voltage / of the supply voltage	redundant power supply, 24 V DC, 5-pole terminal block
consumed current	
• at DC / at 24 V	0.55 A
• at DC / at 24 V / sleep mode / maximum	0.013 A
power loss [W]	
• at DC / at 24 V	13.2 W
• at DC / at 24 V / sleep mode / maximum	0.3 W
<b>supply voltage / 1 / rated value</b>	24 V
• type of voltage / 1 / of the supply voltage	DC
<b>supply voltage / 2 / rated value</b>	24 V
• type of voltage / 2 / of the supply voltage	DC
<b>ambient conditions</b>	
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	IP30
<b>design, dimensions and weights</b>	
width	35 mm
height	157 mm
depth	137 mm
width / of the enclosure / without antenna	35 mm
height / of the enclosure / without antenna	152.5 mm
depth / of the enclosure / without antenna	137 mm
net weight	0.65 kg
fastening method	wall mounting, DIN rail, mounting rail S7-300, mounting rail S7-1500, with adapter: 90° installation on DIN rail
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
• 35 mm top hat DIN rail mounting	Yes
• wall mounting	Yes
<b>radio frequencies</b>	
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
<b>product features, product functions, product components / general</b>	
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
<b>product functions / management, configuration, engineering</b>	
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	

<ul style="list-style-type: none"> <li>• Address Resolution Protocol (ARP)</li> <li>• ICMP</li> <li>• Telnet</li> <li>• HTTP</li> <li>• HTTPS</li> <li>• TFTP</li> <li>• DCP</li> <li>• LLDP</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<p>identification &amp; maintenance function</p> <ul style="list-style-type: none"> <li>• I&amp;M0 - device-specific information</li> <li>• I&amp;M1 - higher level designation/location designation</li> </ul>	<p>Yes</p> <p>Yes</p>
<p>product function / is supported / identification link</p>	<p>Yes; according to IEC 61406-1:2022</p>
<p><b>product functions / diagnostics</b></p>	
<p>product function</p> <ul style="list-style-type: none"> <li>• PROFINET IO diagnosis</li> <li>• SysLog</li> </ul>	<p>Yes</p> <p>Yes</p>
<p>protocol / is supported</p> <ul style="list-style-type: none"> <li>• SNMP v1</li> <li>• SNMP v2</li> <li>• SNMP v3</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p>
<p><b>product functions / VLAN</b></p>	
<p>product function</p> <ul style="list-style-type: none"> <li>• function VLAN with IWLAN</li> </ul>	<p>Yes</p>
<p>number of VLANs / maximum</p>	<p>24</p>
<p><b>product functions / DHCP</b></p>	
<p>product function</p> <ul style="list-style-type: none"> <li>• DHCP client</li> </ul>	<p>Yes</p>
<p><b>product functions / redundancy</b></p>	
<p>protocol / is supported</p> <ul style="list-style-type: none"> <li>• STP/RSTP</li> <li>• MSTP</li> <li>• RSTP</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p>
<p>product function</p> <ul style="list-style-type: none"> <li>• redundancy procedure MSTP</li> </ul>	<p>Yes</p>
<p><b>product functions / security</b></p>	
<p>product function</p> <ul style="list-style-type: none"> <li>• management security, ACL-IP based</li> <li>• IEEE 802.1x (radius)</li> <li>• NAT/NAPT</li> <li>• access protection according to IEEE802.11i</li> <li>• WPA/WPA2</li> <li>• WPA3</li> <li>• TKIP/AES</li> <li>• RADIUS client</li> </ul>	<p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<p>protocol / is supported</p> <ul style="list-style-type: none"> <li>• SSH</li> </ul>	<p>Yes</p>
<p>key length</p> <ul style="list-style-type: none"> <li>• with SSL</li> </ul>	<p>4096 bit</p>
<p><b>product functions / time</b></p>	
<p>protocol / is supported</p> <ul style="list-style-type: none"> <li>• NTP</li> <li>• SNTP</li> <li>• SIMATIC time synchronization (SIMATIC Time)</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p>
<p><b>standards, specifications, approvals</b></p>	
<p>certificate of suitability</p> <ul style="list-style-type: none"> <li>• EC Declaration of Conformity</li> <li>• CE marking</li> </ul>	<p>Yes</p> <p>Yes</p>
<p>standard for wireless communication</p> <ul style="list-style-type: none"> <li>• IEEE 802.11a</li> <li>• IEEE 802.11b</li> </ul>	<p>Yes</p> <p>Yes</p>

• 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
MTBF	26 a

• reference temperature	40 °C
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**standards, specifications, approvals / Environmental Product Declaration**

Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	445.68 kg
• during manufacturing	32.3 kg
• during operation	413.22 kg
• after end of life	0.16 kg



**further information / internet links**

internet link	
• to web page: WLAN country approval	<a href="https://www.siemens.com/wireless-approvals">https://www.siemens.com/wireless-approvals</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

**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 threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert.">https://www.siemens.com/cert.</a> (V4.7)
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**Approvals / Certificates**

General Product Approval	For use in hazardous locations	Radio Equipment Type Approval Certificate	Environment
<a href="#">Declaration of Conformity</a>		<a href="#">Miscellaneous</a>	<a href="#">FCC</a>
			

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