

### 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 operation outside of USA/Israel scope of delivery: cover CLP slot, covers antenna connections, 3x terminal block

transfer rate	
transfer rate	
<ul style="list-style-type: none"> <li>with WLAN / maximum</li> </ul>	1201 Mbit/s
<ul style="list-style-type: none"> <li>for Industrial Ethernet</li> </ul>	10, 100, 1000 Mbit/s
transfer rate / for Industrial Ethernet	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	10 Mbit/s
<ul style="list-style-type: none"> <li>maximum</li> </ul>	1000 Mbit/s
interfaces	
number of electrical/optical connections / for gigabit Ethernet / maximum	4
number of electrical connections	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	4
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	1
<ul style="list-style-type: none"> <li>for redundant voltage supply</li> </ul>	1
type of electrical connection	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	RJ45 socket
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	5-pole terminal block
design of the removable storage	
<ul style="list-style-type: none"> <li>CLP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>CLP iFeatures</li> </ul>	Yes
memory	
design of the removable storage	
<ul style="list-style-type: none"> <li>CLP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>CLP iFeatures</li> </ul>	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
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 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> </ul>	Yes
<ul style="list-style-type: none"> <li>• ICMP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Telnet</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• HTTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• HTTPS</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• TFTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DCP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• LLDP</li> </ul>	Yes
identification & maintenance function	
<ul style="list-style-type: none"> <li>• I&amp;M0 - device-specific information</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• I&amp;M1 - higher level designation/location designation</li> </ul>	Yes
<b>product functions / diagnostics</b>	
product function	
<ul style="list-style-type: none"> <li>• PROFINET IO diagnosis</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SysLog</li> </ul>	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>• SNMP v1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNMP v2</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNMP v3</li> </ul>	Yes
<b>product functions / VLAN</b>	
product function	
<ul style="list-style-type: none"> <li>• function VLAN with IWLAN</li> </ul>	Yes
number of VLANs / maximum	24
<b>product functions / DHCP</b>	
product function	
<ul style="list-style-type: none"> <li>• DHCP client</li> </ul>	Yes
<b>product functions / redundancy</b>	
protocol / is supported	
<ul style="list-style-type: none"> <li>• STP/RSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• MSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RSTP</li> </ul>	Yes
product function	
<ul style="list-style-type: none"> <li>• redundancy procedure MSTP</li> </ul>	Yes
<b>product functions / security</b>	
product function	
<ul style="list-style-type: none"> <li>• management security, ACL-IP based</li> </ul>	No
<ul style="list-style-type: none"> <li>• IEEE 802.1x (radius)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• NAT/NAPT</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• access protection according to IEEE802.11i</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• WPA/WPA2</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• WPA3</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• TKIP/AES</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RADIUS client</li> </ul>	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>• SSH</li> </ul>	Yes
key length	
<ul style="list-style-type: none"> <li>• with SSL</li> </ul>	4096 bit
<b>product functions / time</b>	
protocol / is supported	
<ul style="list-style-type: none"> <li>• NTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SIMATIC time synchronization (SIMATIC Time)</li> </ul>	Yes
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• EC Declaration of Conformity</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
standard for wireless communication	
<ul style="list-style-type: none"> <li>• IEEE 802.11a</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11b</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11e</li> </ul>	Yes

<ul style="list-style-type: none"> <li>• IEEE 802.11g</li> <li>• IEEE 802.11h</li> <li>• IEEE 802.11i</li> <li>• IEEE 802.11n</li> <li>• IEEE 802.11ac</li> <li>• IEEE 802.11ax</li> <li>• IEEE 802.11r</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
MTBF	26 a
<ul style="list-style-type: none"> <li>• reference temperature</li> </ul>	40 °C
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to website: TIA Selection Tool</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to the website: IWLAN</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a></p> <p><a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a></p> <p><a href="http://www.siemens.com/iwlan">http://www.siemens.com/iwlan</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>
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