



IWLAN 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 Mbps (gross) per radio, 1x10/100/1000 Mbps M12 socket, redundant 24 V DC, M12 L-coded, PoE, for extended ambient conditions, IP65, -30...+75°C, CLP slot, DI/DQ, A-coded, observe national approvals! Cert ID: MSAX65-W1-M12-E2 operation outside of USA/Israel scope of supply: manuals on DVD; German/English, sealing caps for connections

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 gigabit Ethernet / maximum	1
number of electrical connections	
- for network components or terminal equipment - for power supply - for redundant voltage supply	1 1 1
type of electrical connection	
- for network components or terminal equipment - for redundant voltage supply	M12 interface (8-pole, X-coded), PoE M12 interface (4-pin, L-coded)
design of the removable storage	
- CLP - CLP iFeatures	Yes Yes

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)	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 acc. to IEEE802.3at for type 1 and IEEE802.3af	48 V
consumed current - at DC / at 24 V / typical - with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	0.55 A 0.27 A
power loss [W] - at DC / at 24 V / typical - with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	13.2 W 12.96 W
supply voltage / 1 from M12 power Connector (L-coded) for redundant voltage supply	24 V
supply voltage / 1 / rated value type of voltage / 1 / of the supply voltage	24 V DC
supply voltage / 2 from M12 power Connector (L-coded) for redundant voltage supply	24 V
supply voltage / 2 / rated value type of voltage / 2 / of the supply voltage	24 V DC
supply voltage / 3 / rated value	48 V
ambient conditions	
ambient temperature - during operation - during storage - during transport	-30 ... +75 °C -40 ... +85 °C -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 35 mm top hat DIN rail mounting - wall mounting - VESA mounting	Yes Yes Yes
radio frequencies	
operating frequency - for WLAN in 2.4 GHz frequency band - for WLAN in 5 GHz frequency band	2.41 ... 2.48 GHz; depending on the country approvals 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, engineering	
product function	

• CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • configuration with STEP 7 in the TIA Portal • WDS	Yes Yes Yes Yes Yes Yes No
protocol / is supported • Address Resolution Protocol (ARP) • ICMP • Telnet • HTTP • HTTPS • TFTP • DCP • LLDP	Yes Yes Yes Yes Yes Yes Yes Yes
identification & maintenance function • I&M0 - device-specific information • I&M1 – higher level designation/location designation	Yes Yes
product functions / diagnostics	
product function • PROFINET IO diagnosis • SysLog	Yes Yes
protocol / is supported • SNMP v1 • SNMP v2 • SNMP v3	Yes Yes 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 • MSTP • RSTP	Yes Yes Yes
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	No Yes No Yes Yes Yes
protocol / is supported • SSH	Yes
product functions / time	
protocol / is supported • NTP • SNTP • SIMATIC time synchronization (SIMATIC Time)	Yes Yes Yes
standards, specifications, approvals	
certificate of suitability • EC Declaration of Conformity • CE marking • E1 approval	Yes Yes Yes

● railway application in accordance with EN 50155 ● fire protection in accordance with EN 45545-2 ● Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	Yes Yes Yes
standard for wireless communication ● IEEE 802.11a ● IEEE 802.11b ● IEEE 802.11e ● IEEE 802.11g ● IEEE 802.11h ● IEEE 802.11i ● IEEE 802.11n ● IEEE 802.11ac ● IEEE 802.11ax	Yes Yes Yes Yes Yes Yes Yes Yes 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 ● to web page: selection aid TIA Selection Tool ● to the website: IWLAN ● to website: Industry Mall ● to website: Information and Download Center ● to website: Image database ● to website: CAX-Download-Manager ● to website: Industry Online Support	http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax 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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