

### product type designation



### W786C-2 RJ45 Contr.-Based

\*\*\*\*\* Replacement part \*\*\*\*\* IWLAN Access Point, SCALANCE W786C-2 RJ45, 2 radios, for operation on IWLAN controller 6 R-SMA antenna port, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbit/s per radio, 1x RJ45 max. 1 Gbit/s, PoE, redundant 24 V DC, terminal block, 110 - 230 V AC via PS791-2AC IP65, -40...+60 °C, WPA2/802.11i/e, observe national approval CERT ID: EAPN-W2-RJ-E3 includes: MPCIE-R1-ABGN-U3, scope of delivery: Manuals on CD-ROM German/English, 1x terminal block

### transfer rate

#### transfer rate

- with WLAN / maximum
- for Industrial Ethernet

450 Mbit/s  
10, 1000, 1000 Mbit/s

#### transfer rate / for Industrial Ethernet

- minimum
- maximum

10 Mbit/s  
1000 Mbit/s

### interfaces

#### 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 power supply

RJ45 socket  
2-pole connector (24 V DC) or optionally available power supply adapter (4-pole 24 V DC or 3-pole 110 to 230 V AC)

#### design of the removable storage

- C-PLUG
- KEY-PLUG

No  
No

### memory

#### design of the removable storage

- C-PLUG
- KEY-PLUG

No  
No

### interfaces / wireless

#### number of radio cards / permanently installed

2

#### transmission mode / for multiple input multiple output (MIMO)

3x3

#### number of spatial streams

3

#### number of electrical connections / for external antenna(s)

6

#### type of electrical connection / for external antenna(s)

R-SMA (socket)

#### product feature / external antenna can be mounted directly on device

No

### supply voltage, current consumption, power loss

#### type of voltage / of the supply voltage

DC

#### supply voltage

- from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af
- from Power-over-Ethernet according to IEEE802.3at for type 2
- from optional integrable power supply — at AC

48 V

50 V

100 ... 240 V

— at DC	12 ... 24 V
consumed current	
• at DC / at 24 V / typical	0.63 A
• at AC / at 230 V / typical	0.07 A
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	0.22 A
power loss [W]	
• at DC / at 24 V / typical	15 W
• at AC / at 230 V / typical	15 W
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	10.7 W
<b>supply voltage / 1</b>	
• from terminal block	19.2 V
<b>supply voltage / 2</b>	
• from terminal block	28.8 V
<b>ambient conditions</b>	
ambient temperature	
• during operation	-40 ... +60 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +70 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	100 %
ambient condition / for operation	When using the 100 - 240 V AC power supply, an operating temperature of -40 °C to +60 °C is permissible
protection class IP	IP65
<b>design, dimensions and weights</b>	
width / of the enclosure / without antenna	251 mm
height / of the enclosure / without antenna	251 mm
depth / of the enclosure / without antenna	72 mm
net weight	2.24 kg
fastening method	For mast mounting, 35 mm DIN rail mounting and S7-300 rail mounting, an additional support plate is required
• S7-1500 rail mounting	No
• 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	No
number of SSIDs	16
product function	
• dual client	No
<b>product functions / management, configuration, engineering</b>	
product function	
• operation with IWLAN controller	Yes
• operation with Enterasys WLAN controller	Yes
<b>product functions / DHCP</b>	
product function	
• DHCP client	Yes
<b>product functions / time</b>	
protocol / is supported	
• SIMATIC time synchronization (SIMATIC Time)	No
<b>standards, specifications, approvals</b>	
standard	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
certificate of suitability	
• EC Declaration of Conformity	Yes
• CE marking	Yes
• C-Tick	Yes

<ul style="list-style-type: none"> <li>• E1 approval</li> <li>• railway application in accordance with EN 50155</li> <li>• railway application in accordance with EN 50121-4</li> <li>• NEMA TS2</li> <li>• IEC 61375</li> <li>• IEC 61850-3</li> <li>• NEMA4X</li> <li>• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af</li> <li>• Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	Yes No Yes No No No Yes Yes Yes
standard for wireless communication	
<ul style="list-style-type: none"> <li>• IEEE 802.11a</li> <li>• IEEE 802.11b</li> <li>• IEEE 802.11e</li> <li>• IEEE 802.11g</li> <li>• IEEE 802.11h</li> <li>• IEEE 802.11i</li> <li>• IEEE 802.11n</li> </ul>	Yes Yes Yes Yes Yes Yes Yes
wireless approval	You will find the current list of countries at: <a href="http://www.siemens.de/funkzulassungen">www.siemens.de/funkzulassungen</a>
<b>standards, specifications, approvals / marine classification</b>	
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• French marine classification society (BV)</li> <li>• DNV GL</li> <li>• Korean Register of Shipping (KRS)</li> <li>• Lloyds Register of Shipping (LRS)</li> <li>• Nippon Kaiji Kyokai (NK)</li> <li>• Polski Rejestr Statkow (PRS)</li> <li>• Royal Institution of Naval Architects (RINA)</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes
<b>standards, specifications, approvals / hazardous environments</b>	
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
<b>accessories</b>	
accessories	24 V DC screw terminal included in scope of delivery
<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>	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a> <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a> <a href="http://www.siemens.com/iwlan">http://www.siemens.com/iwlan</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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 <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a> . To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a> . (V3.4)

last modified:

1/21/2021 