

OFFICIAL MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

6GK5786-2FC00-0AA0

Siemens official documentation for the exact article number.

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Product type designation



SCALANCE W786-2 RJ45

IWLAN Access Point, SCALANCE W786-2 RJ45, 2 radios, 6 R-SMA antenna port, iFeatures support via key plug, 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, plug slot, WPA2/802.11i/e, observe national approvals! CERT ID: EAPN-W2-RJ-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: Manuals on CD-ROM, German/English, 1x terminal block; for operation outside of USA/Israel

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	Yes

- KEY-PLUG

Yes

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 / 1 • from terminal block	19.2 V
Supply voltage / 2 • from terminal block	28.8 V
Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af	48 V
• from Power-over-Ethernet acc. to IEEE802.3at for type 2	50 V
• from optional integrable power supply — at AC	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

Ambient conditions

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

Design, dimensions and weights

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
Mounting type	For mast mounting, 35 mm DIN rail mounting and S7-300 rail mounting, an additional support plate is required
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	No
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes

Radio frequencies

Operating frequency	
• for WLAN in 2.4 GHz frequency band	2.41 ... 2.48 GHz
• for WLAN in 5 GHz frequency band	4.9 ... 5.8 GHz

Product features, product functions, product components / general

Product function / Access Point Mode	Yes
Product function / Client Mode	Yes
Number of SSIDs	16
Product function	
• iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
• iPCF-MC Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF-MC client	Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
Number of iPCF-capable radio modules	2
Product function / iREF	Yes; In combination only with 'KEY-PLUG W780 iFeatures'
Number of iREF-capable radio modules	2
Product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only

Product functions / management, configuration, engineering

Number of manageable IP addresses / in client	8
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 • operation with IWLAN controller • operation with Enterasys WLAN controller • forced roaming on IP down with IWLAN • forced roaming on link down with IWLAN • WDS	Yes No No Yes Yes Yes
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 • Link Check • connection monitoring IP-Alive • localization via Aeroscout • SysLog	Yes No No Yes Yes
Protocol / is supported • SNMP v1 • SNMP v2 • SNMP v3	Yes Yes Yes
Product functions / VLAN	
Product function • function VLAN with IWLAN	Yes
Product functions / DHCP	
Product function • DHCP client • DHCP server • DHCP Option 82	Yes Yes Yes
Product functions / redundancy	
Protocol / is supported	