SIEMENS

Data sheet

6GK5786-2HC00-0AA0

product type designation



W786-2IA RJ45

IWLAN Access Point, SCALANCE W786-2IA RJ45, 2 radios, 6 internal antennas, 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-I3, 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 	450 Mbit/s
 for Industrial Ethernet 	10, 100, 1000 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	1000 Mbit/s
interfaces	
number of electrical connections	
 for network components or terminal equipment 	1
 for power supply 	1
 for redundant voltage supply 	1
type of electrical connection	
 for network components or terminal equipment 	RJ45 socket
 for power supply 	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
memory	
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 internal antennas	6
antenna gain compared to spherical radiator / of the WLAN antenna	
 in the 2.4 GHz frequency band 	3 dB
 in the 5 GHz frequency band 	4 dB
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 	48 V
 from Power-over-Ethernet according to IEEE802.3at for type 2 	50 V
 from optional integrable power supply 	

— at AC	100 240 V
— at AC — at DC	100 240 V 12 24 V
consumed current	12 24 V
	0.62.4
• at DC / at 24 V / typical	0.63 A
at AC / at 230 V / typical with Dewar over Ethernet according to IEEE02 2at	0.07 A 0.22 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 	15 W
supply voltage / 1	
 from terminal block 	19.2 V
supply voltage / 2	
 from terminal block 	28.8 V
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	100 %
operation / maximum	
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
fastening method	For mast mounting, 35 mm DIN rail mounting and S7-300 rail mounting,
J. J	an additional support plate is required
 S7-300 rail mounting 	Yes
 S7-1500 rail mounting 	No
 35 mm top hat DIN rail mounting 	Yes
wall mounting	Yes
radio frequencies	
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
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, engineeri	ng
number of manageable IP addresses / in client	8
product function	
• CLI	Yes
 web-based management 	Yes
MIB support	N .
	Yes
 TRAPs via email 	Yes
 TRAPs via email configuration with STEP 7 	

- configuration with CTED 7 in the TIA Dorted	Vaa
configuration with STEP 7 in the TIA Portal	Yes
operation with IWLAN controller operation with Entergy (All AN controller	No
operation with Enterasys WLAN controller	Yes
 forced roaming on IP down with IWLAN forced roaming on link down with IWLAN 	Yes
WDS	Yes
protocol / is supported	165
Address Resolution Protocol (ARP)	Yes
ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	Yes
identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 - higher level designation/location designation 	Yes
product functions / diagnostics	
product function	
PROFINET IO diagnosis	Yes
Ink check	No
connection monitoring IP-Alive	No
localization via Aeroscout	Yes
• SysLog	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
product functions / VLAN	
product function	
function VLAN with IWLAN	Yes
product functions / DHCP	
product function	
DHCP client	Yes
DHCP server	Yes
DHCP Option 82	Yes
product functions / redundancy	
protocol / is supported	Vee
• STP/RSTP	Yes
	Vee
• MSTP	Yes
• RSTP	Yes Yes
RSTP product functions / security	
RSTP product functions / security product function	Yes
RSTP product functions / security product function ACL - MAC-based	Yes
RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based	Yes Yes Yes
RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius)	Yes Yes Yes Yes
RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT	Yes Yes Yes No
RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i	Yes Yes Yes No Yes
RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2	Yes Yes Yes No Yes Yes
RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES	Yes Yes Yes No Yes
RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported	Yes Yes Yes No Yes Yes Yes Yes
 RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH 	Yes Yes Yes Yes Yes Yes Yes Yes
 RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS 	Yes Yes Yes No Yes Yes Yes Yes
 RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS product functions / time 	Yes Yes Yes Yes Yes Yes Yes
 RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS product functions / time protocol / is supported 	Yes Yes Yes No Yes Yes Yes Yes Yes
 RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS product functions / time protocol / is supported NTP 	Yes Yes Yes No Yes Yes Yes Yes Yes
 RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS protocol / is supported NTP SNTP 	Yes Yes Yes Yes Yes Yes Yes Yes
 RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS protocol / is supported NTP SNTP SIMATIC time synchronization (SIMATIC Time) 	Yes Yes Yes No Yes Yes Yes Yes Yes
 RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS protocol / is supported SSH SNTP SIMATIC time synchronization (SIMATIC Time) 	Yes Yes Yes Yes Yes Yes Yes Yes
 RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS protocol / is supported SNTP SIMATIC time synchronization (SIMATIC Time) standards, specifications, approvals 	Yes Yes Yes Yes Yes Yes Yes Yes Yes
 RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS protocol / is supported SSH SNTP SIMATIC time synchronization (SIMATIC Time) 	Yes Yes Yes Yes Yes Yes Yes Yes

	N
• CE marking	Yes
• C-Tick	Yes
• E1 approval	Yes
railway application in accordance with EN 50155	No
 railway application in accordance with EN 50121-4 	No
• NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	Yes
 Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	Yes
Power-over-Ethernet according to IEEE802.3at for	Yes
type 2	
standard for wireless communication	
• IEEE 802.11a	Yes
• IEEE 802.11b	Yes
• IEEE 802.11e	Yes
• IEEE 802.11g	Yes
• IEEE 802.11h	Yes
• IEEE 802.11i	Yes
• IEEE 802.11n	Yes
wireless approval	You will find the current list of countries at:
	www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classificatio	-
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
 French marine classification society (BV) 	Yes
DNV GL	Yes
Korean Register of Shipping (KRS)	Yes
Lloyds Register of Shipping (LRS)	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
Polski Rejestr Statkow (PRS)	Yes
Royal Institution of Naval Architects (RINA)	Yes
	nants
standards, specifications, approvals / hazardous environr	
	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07
standards, specifications, approvals / hazardous environr standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
standards, specifications, approvals / hazardous environr	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07
standards, specifications, approvals / hazardous environr standard / for hazardous zone certificate of suitability / CCC / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
standards, specifications, approvals / hazardous environm standard / for hazardous zone certificate of suitability / CCC / for hazardous zone according to GB standard	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X Yes
standards, specifications, approvals / hazardous environment standard / for hazardous zone certificate of suitability / CCC / for hazardous zone according to GB standard accessories accessories	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
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standards, specifications, approvals / hazardous environment standard / for hazardous zone certificate of suitability / CCC / for hazardous zone according to GB standard accessories accessories further information / internet-Links Internet-Link • to website: TIA Selection Tool	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X Yes 24 V DC screw terminal included in scope of delivery http://www.siemens.com/tia-selection-tool
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