SIEMENS

Data sheet

6GK5786-2FC00-0AC0



IWLAN access point, SCALANCE W786-2 RJ45, 2 radios, 6 R-SMA antenna connections, IEEE 802.11a/b/g/h/n, 2.4/5 GHz, gross 450 Mbit/s per radio, 1 x RJ45 (max. 1 Gbit/s), PoE, 24 V DC, IP65, (-40 to +60 °C), WPA2/802.111/e, Observe national approval! (Cert. ID: EAPN-W2-RJ-E3) Includes MPCIE-R1-ABGN-U3 Scope of delivery: Manuals on CD, de/en 1 x terminal block, only for operation in Israel.

transfer rate	
transfer rate	
 with WLAN / maximum 	450 Mbit/s
 for Industrial Ethernet 	10, 1000, 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
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	0.22 A
for type 1 and IEEE802.3af / typical	
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 $^\circ$ C to +60 $^\circ$ 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, 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	
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	
number of manageable IP addresses / in client	8
product function	
• CLI	Yes
web-based management	Yes
MIB support	Yes

 Inder Sub density of the second second		Y.
 configuration with STEP 7 in the TA Portal operation with MUAA controller No operation with MUAE controller No forced rearing on link down with INULAN Yes forduct function forced rearing IF-Alive No forced rearing IF-Alive forced r	TRAPs via email	Yes
• oppration with INULAN controller No • oppration with Entersays WLAN controller No • forced rearning on IP down with INULAN Yes • WDS Yes • WDS Yes • Protocol / is supported Yes • Cachars Resolution Protocol (ARP) Yes • CArborner Yes • Tarlinal Yes • CArborner Yes • Tarlinal Yes • CArborner Yes • Gentification & maintenance function Yes • KBM0 - divers-specific Information Yes • ROPEINET ID diagnosis Yes • PROFINET ID diagnosis Yes • Intro Check No • contraction monitoring IP-Alive No • contraction via Adressout Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • Product function Yes • OthCP Exerce Yes • SNMP v3 Yes • SNMP v4 Yes • SNMP v5 Yes	-	
in forced roaming on link down with IWLAN Yes increat Resolution Protocol (ARP) Yes increated Resolution Protocol		
- isorced roaming on link down with IWLAN Yes > WDS Yes protocol / is supported Yes - Address Resolution Protocol (ARP) Yes - ICMP Yes - TETP Yes - HTTPS Yes - HTTPS Yes - DCP Yes - DCP Yes - DCP Yes - ILDP Yes - ICMP Yes - ISMT - Indiper Ised designation Yes product functions / diagnostics Yes product function monitoring IP-Alive No - Connection monitoring IP-Alive No - Source / Is supported Yes - SNMP v3 Yes product function Yes - Source / Is supported Yes - Source / Is supported Yes - Source / Inctions / LAN Yes - Source / Inctions / LAN Yes - Source / Inctions / Jes Yes - Source / Inctions / Jes Yes - Source / Inctions / Jes		No
• WDS Yes protocol / is supported Yes • Address Resolution Protocol (ARP) Yes • ICLMP Yes • Teninet Yes • TTTPS Yes • HTTPS Yes • HTTPS Yes • DCP Yes • LLDP Yes • Modulation Conception Information Yes • Product functions Yes • Intic check No • concreation monitoring IP-Alive No • concreation via Aeroscout Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes product functions / VLAN Yes product function Foreignee • DHCP option 42 Yes • SNMP v3 Yes • DHCP option 42	-	Yes
protocol /is supported Yes • CAMP Yes • CIAP Yes • Teinet Yes • HTTP Yes • HTTPS Yes • TEIP Yes • ICAP Yes • ICAP Yes • IEMD Horman • IEMD Yes • IEMD Yes • SMMP V1 Yes • SMMP V2 Yes • SMMP V2 Yes • SMMP V2 Yes • DHCP Denot Yes • DHCP Denot Yes • DHCP Denot Yes • DHCP Denot Yes • SMMP </td <td></td> <td>Yes</td>		Yes
+ Address Resolution Protocol (ARP) Yes • ICMP Yes • Tehnet Yes • ITTPS Yes • ITTPS Yes • ITTPS Yes • IDCP Yes • IDCP Yes • Identification & maintenance function Yes • IBMO - device-specific information Yes • IBMO - device-specific information Yes • IBMO - device-specific information Yes • Product function Yes • Product function Yes • IBMO - device-specific information Yes • IBMO - device-specific information Yes • IBMO - device-specific information Yes • Intro Index No • Intervices Yes • Intro Index No • Intro Index No • Intro Index No • Intro Index Yes • SIMMP v1 Yes • SIMMP v2 Yes • SIMMP v3 Yes • DHCP option 82 Yes • STPINSTP Yes	• WDS	Yes
 ICMP Yes Teinet Yes HTTP Yes HTTPS Yes TTP Yes ILDP Yes ILD Yes ILD Yes Yes	protocol / is supported	
TelnetYesHTTPYesHTTPSYesTFTPYesDCPYesLLDPYesIdentification & maintenance functionYesI&M - higher level designation/location designationYesproduct functionYesiBM - higher level designation/location designationYesproduct functionYesordinet functionYesiBit checkNoocannection monitoring IP-AliveNoibit checkNoocannection with AeroscoutYesSNMP v1YesSNMP v3Yesproduct function / VLANYesproduct function / DICPYesproduct function / DICPYesproduct function / SecurityYesprotocol / is supportedYes. MSTPYes. MSTPYes. MSTPYes. MSTPYes. IEEE 802 1x (ratios)Yes. IEEE 802 1x (ratios)Yes. INTA/AELSYes. INTA/AELSYes. TAR/AELSYes. TRIPAELSYes. TRIPAELSYes<	 Address Resolution Protocol (ARP) 	Yes
HTTPYesHTTPSYesHTTPSYesDCPYesLLDPYesIdentification & maintenance functionYesi&MAD - device-specific informationYesiRMD - Injufter level designation/location designationYesproduct functionYesproduct functionYesilik wheekNo• Connection monitoring IP-AliveNo• locatization via AeroscoutYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yesproduct functions / VLANYesproduct functions / StarRsTPYesproduct functions / securityYesproduct function / securityYesproduct function / securityYesproduct function / securityYesistications / securityYesistications / securityYesistications / securityYesistications / securityYesistications / securityYesistications / security	• ICMP	Yes
• HTTPS Yes • TETP Yes • DCP Yes • ILDP Yes identification & naintenance function Yes • I&MM - device-specific information Yes • I&MM - higher level designation/location designation Yes product functions ////////////////////////////////////	• Telnet	Yes
 • TFTP Ves • LLDP Yes • LLDP Yes • LBM0 - device-specific information • 18M0 - device-specific information • 18M1 - higher level designation/location designation Yes • Product functions / diagnostics Product functions / diagnostics Product function monitoring IP-Alive • Connection monitoring IP-Alive • Sold Aeroscout • Systog • Yes • SNMP v1 • Systog • Simported • Simported • Simported • Simported • Simported • Freduct functions / VLN • Product functions / VLN • Product functions / VLN • Product functions / VLN • DHCP Option 82 • Product functions / Start • DHCP Option 82 • Simported • STPR • Simported • STPR • Simported • Start • Product function / security • Product function / security • Conduct function / security • ACL - MAC-based • NaT/NAPT • NaCL - MAC-based • Nation / ACL - Macbased • Nation / ACL - MAC-based • Nation / ACL - MAC-based<td>• HTTP</td><td>Yes</td>	• HTTP	Yes
• DCP Yes • LLDP Yes • IBM0 - device-specific information Yes • IBM1 - higher level designation/location designation Yes product functions / diagnostics Yes • PROFINET IO diagnostics Yes • IBM / check No • link / check No • SIMP V3 Yes > SIMP V1 Yes • SIMP V2 Yes • SIMP V3 Yes > product function Yes • function VLAN with IWLAN Yes > product function Yes • DHCP leint Yes • DHCP leint Yes • DHCP Option 82 Yes • STP/RSTP Yes • STP/RSTP Yes • RSTP Yes • RSTP Yes • Matherit function Yes • IBCP Option 82 Yes • RSTP Yes • RSTP	• HTTPS	Yes
• LLDP Yes identification & maintenance function Yes • IBAM - higher level designation/location designation Yes product functions / diagnostics Yes product functions Yes • IBAM - higher level designation/location designation Yes product functions Yes • link check No • connection monitoring IP-Alive No • sSIMP V1 Yes • SIMP V2 Yes • SIMP V3 Yes product functions / VLAN Yes product functions / VLAN Yes product functions / DLCP Yes • DHCP client Yes • DHCP option 82 Yes protocol / is supported SSTP • STP Yes	• TFTP	Yes
identification & maintenance function Yes iRMD - device-specific information Yes iRMT - higher level designation/location designation Yes product functions / diagnosis Yes • IRACHNET IO diagnosis Yes • IRACHNET IO diagnosis Yes • Incheck No • connection monitoring IP-Alive No • localization via Aeroscout Yes • SysLog Yes protocot //s supported SNMP v1 • SIMIP v2 Yes • SIMIP v3 Yes product functions / VLAN Yes protocol / is supported Yes protocol / is supported Yes protocol / is supported Yes i REEE 802.1x (radius)	• DCP	Yes
• I&M0 - device-specific information Yes product functions / diagnostics Yes product functions / diagnostics Yes • Ink check No • connection monitoring IP-Alive No • localization via Aeroscout Yes • SysLog Yes protoct / is supported Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes product functions / DHCP Yes product functions / coundancy Yes protocl / is supported Yes • STP/RSTP Yes • MSTP Yes • RSTP Yes • RSTP Yes • Magement security, ACL-IP based Yes • Rangement security, ACL-IP based Yes • NAT/NAPT No • access protection according to IEEE802.11i Yes • NAT/NAPT	• LLDP	Yes
• I&M1 - higher level designation/location designation Yes product functions/ • • PROFINET IO diagnosits Yes • Ink check No • connection monitoring IP-Alive No • localization via Aeroscout Yes • SysLog Yes protocol / is supported • • SIMIP v1 Yes • SIMIP v2 Yes protocol / is supported • • SIMIP v3 Yes product functions /VLAN Yes product function /LAN with IWLAN Yes product functions / DHCP Product function • DHCP Colient Yes • DHCP Option 82 Yes product functions / redundancy Yes protocol / is supported Yes • STP/RSTP Yes • RSTP Yes Product functions / socority Yes protocol / is supported Yes • ACL - MAC-based Yes • RSTP Yes • RASTP Yes	identification & maintenance function	
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• link checkNo• connection monitoring IP-AliveNo• constation via AeroscoutYes• SysLogYesprotocol / is supported*********************************	PROFINET IO diagnosis	Yes
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protocol / is supported Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes product functions / VLAN Yes product function / VLAN with IWLAN Yes product function / DHCP Yes product function / DHCP Option 82 Yes product functions / redundancy Yes product function / soupported • STP/RSTP • STP/RSTP Yes • RSTP Yes product function • CL - MAC-based • ACL - MAC-based Yes • management security Yes product function Yes • NAT/NAPT No • access protection according to IEEE802.11i Yes • TKIP/AES Yes protocol / is supported Yes • TKIP/AES Yes protocol / is supported Yes • RADIUS Yes		
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product functions / VLAN product function • function VLAN with IWLAN Product function • DHCP client • DHCP point • DHCP option 82 Yes product functions / redundancy protocol / is supported • STP/RSTP • RSTP • RASTP Yes product functions / security product function • CL - MAC-based • NAT/NAPT • NAT/NAPT • NAT/NAPT • NAT/NAPT • NAT/NAPT • SSH • TKIP/AES • FADIUS Protocol / is supported • RADIUS	• SNMP v2	Yes
product function Yes product function product function • DHCP client Yes • DHCP Option 82 Yes product functions / redundancy protocol / is supported • STP/RSTP Yes • MSTP Yes • RSTP Yes product function • RSTP Yes • RSTP Yes • MSTP Yes • RSTP Yes • RSTP Yes • NACL - MAC-based Yes • IEEE 802.1x (radius) Yes • NAT/NAPT No • access protection according to IEEE802.11i Yes • WPAWPA2 Yes • TKIP/AES Yes protocol / is supported Yes • SSH Yes	• SNMP v3	Yes
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ACL - MAC-basedYes• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYes		
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• WPA/WPA2 Yes • TKIP/AES Yes protocol / is supported Yes • SSH Yes • RADIUS Yes		
• TKIP/AESYesprotocol / is supported• SSHYes• RADIUSYes		Yes
protocol / is supported • SSH • RADIUS Yes		
SSH Yes RADIUS Yes		Yes
RADIUS Yes		
product functions / time		Yes
	product functions / time	

national (in purported	
protocol / is supported	Mar.
• NTP	Yes
• SNTP	Yes
SIMATIC time synchronization (SIMATIC Time)	Yes
standards, specifications, approvals	
standard	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
 for hazardous zone 	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
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
 E1 approval 	Yes
 railway application in accordance with EN 50155 	No
 railway application in accordance with EN 50121-4 	Yes
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 type 2 	Yes
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	For operation in the USA, you will find more information under: www.siemens.de/funkzulassungen
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
accessories	
	24 V DC screw terminal included in scope of delivery
accessories	24 V DC screw terminal included in scope of delivery
further information / internet-Links	
Internet-Link	
• to website: TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• to the website: IWLAN	http://www.siemens.com/iwlan
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
 to website: Image database 	http://automation.siemens.com/bilddb
 to website: CAx-Download-Manager 	http://www.siemens.com/cax
 to website: Industry Online Support 	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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