## 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	
<ul> <li>with WLAN / maximum</li> </ul>	450 Mbit/s
<ul> <li>for Industrial Ethernet</li> </ul>	10, 1000, 1000 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	1000 Mbit/s
interfaces	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	1
<ul> <li>for power supply</li> </ul>	1
<ul> <li>for redundant voltage supply</li> </ul>	1
type of electrical connection	
<ul> <li>for network components or terminal equipment</li> </ul>	RJ45 socket
<ul> <li>for power supply</li> </ul>	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	
<ul> <li>from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	48 V
<ul> <li>from Power-over-Ethernet acc. to IEEE802.3at for type 2</li> </ul>	50 V

<ul> <li>from optional integrable power supply</li> </ul>	
— 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]	
<ul> <li>at DC / at 24 V / typical</li> </ul>	15 W
<ul> <li>at AC / at 230 V / typical</li> </ul>	15 W
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical</li> </ul>	10.7 W
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-40 +60 °C
<ul> <li>during storage</li> </ul>	-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
<ul> <li>S7-300 rail mounting</li> </ul>	Yes
S7-1500 rail mounting	No
<ul> <li>35 mm top hat DIN rail mounting</li> </ul>	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
<ul> <li>for WLAN in 5 GHz frequency band</li> </ul>	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

<ul> <li>Inder Sub density of the second second</li></ul>		Y.
<ul> <li>configuration with STEP 7 in the TA Portal</li> <li>operation with MUAA controller</li> <li>No</li> <li>operation with MUAE controller</li> <li>No</li> <li>forced rearing on link down with INULAN</li> <li>Yes</li> <li>forduct function</li> <li>forced rearing IF-Alive</li> <li>No</li> <li>forced rearing IF-Alive</li> <li>forced r</li></ul>	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
<ul> <li>ICMP</li> <li>Yes</li> <li>Teinet</li> <li>Yes</li> <li>HTTP</li> <li>Yes</li> <li>HTTPS</li> <li>Yes</li> <li>TTP</li> <li>Yes</li> <li>ILDP</li> <li>Yes</li> <li>ILD</li> <li>Yes</li> <li>ILD</li> <li>Yes</li> <li>Yes</li></ul>	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<	<ul> <li>Address Resolution Protocol (ARP)</li> </ul>	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
<ul> <li>• TFTP</li> <li>Ves</li> <li>• LLDP</li> <li>Yes</li> <li>• LLDP</li> <li>Yes</li> <li>• LBM0 - device-specific information</li> <li>• 18M0 - device-specific information</li> <li>• 18M1 - higher level designation/location designation</li> <li>Yes</li> <li>• Product functions / diagnostics</li> <li>Product functions / diagnostics</li> <li>Product function monitoring IP-Alive</li> <li>• Connection monitoring IP-Alive</li> <li>• Sold Aeroscout</li> <li>• Systog</li> <li>• Yes</li> <li>• SNMP v1</li> <li>• Systog</li> <li>• Simported</li> <li>• Simported</li> <li>• Simported</li> <li>• Simported</li> <li>• Simported</li> <li>• Freduct functions / VLN</li> <li>• Product functions / VLN</li> <li>• Product functions / VLN</li> <li>• Product functions / VLN</li> <li>• DHCP Option 82</li> <li>• Product functions / Start</li> <li>• DHCP Option 82</li> <li>• Simported</li> <li>• STPR</li> <li>• Simported</li> <li>• STPR</li> <li>• Simported</li> <li>• Start</li> <li>• Product function / security</li> <li>• Product function / security</li> <li>• Conduct function / security</li> <li>• ACL - MAC-based</li> <li>• NaT/NAPT</li> <li>• NaCL - MAC-based</li> <li>• Nation / ACL - Macbased</li> <li>• Nation / ACL - MAC-based</li> <li>• Nation / ACL - MAC-based<td>• HTTP</td><td>Yes</td></li></ul>	• 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	
product functions / diagnostics       product function       • PROFINET IO diagnostis       • link check       • link check       • link check       • localization via Aeroscout       • Sigling       • Styling       • Styling       • Styling       • Styling       • Sigling       • Sigling </td <td><ul> <li>I&amp;M0 - device-specific information</li> </ul></td> <td>Yes</td>	<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
product function     Yes          • IRRCFINET IC diagnosis       Yes          • Iink check       No          • connection monitoring IP-Alive       No          • collization via Aeroscout       Yes          • SysLog       Yes         protocol / is supported       Yes          • SNMP v1       Yes          • SNMP v2       Yes          • SNMP v3       Yes         product functions / VLAN       Yes         product function  <	<ul> <li>I&amp;M1 – higher level designation/location designation</li> </ul>	Yes
• PROFINET IO diagnosis     Yes       • link check     No       • connection monitoring IP-Alive     No       • localization via Aeroscout     Yes       • sysLog     Yes       protocol / is supported     Yes       • SNMP V1     Yes       • SNMP V3     Yes       product functions / VLAN     Yes       product function     Yes       • Unction VLAN with IWLAN     Yes       product function     Yes       • DHCP client     Yes       • DHCP Server     Yes       • DHCP Server     Yes       • DHCP Client     Yes       • STP     Yes       product functions / redundancy     Yes       product functions / supported     Yes       • STP     Yes       • STP     Yes       • MSTP     Yes       • ACL - MAC-based     Yes       • NAT/NAPT     No       • access protection according to IEEE802.111     Yes       • STRIPAES     Yes       • NAT/NAPT     No       • ACC-Divased     Yes       • NAT/NAPT     No	product functions / diagnostics	
• link checkNo• connection monitoring IP-AliveNo• constation via AeroscoutYes• SysLogYesprotocol / is supported*********************************	product function	
• link checkNo• connection monitoring IP-AliveNo• constation via AeroscoutYes• SysLogYesprotocol / is supported*********************************	PROFINET IO diagnosis	Yes
• localization via Aeroscout     Yes       • SysLog     Yes       protocol / is supported     *       • SNMP v1     Yes       • SNMP v2     Yes       • SNMP v3     Yes       product functions     *       • function VLAN     Yes       product function     *       • function VLAN with IWLAN     Yes       product function     *       • OHCP client     Yes       • OHCP option 82     Yes       product functions / redundancy     Yes       product functions / redundancy     Yes       product functions / security     Yes       product functions / security     Yes       product function / security     Yes       i EEE 802.1x (radius)     Yes		
• localization via Aeroscout     Yes       • SysLog     Yes       protocol / is supported     *       • SNMP v1     Yes       • SNMP v2     Yes       • SNMP v3     Yes       product functions     *       • function VLAN     Yes       product function     *       • function VLAN with IWLAN     Yes       product function     *       • OHCP client     Yes       • OHCP option 82     Yes       product functions / redundancy     Yes       product functions / redundancy     Yes       product functions / security     Yes       product functions / security     Yes       product function / security     Yes       i EEE 802.1x (radius)     Yes	<ul> <li>connection monitoring IP-Alive</li> </ul>	No
• SysLogYesprotocol / is supportedYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yesproduct functions / VLANYesproduct function on ULAN with IWLANYes• function VLAN with IWLANYesproduct functions / DHCPYesproduct function s / DHCPYesproduct function s / DHCP clientYes• DHCP clientYes• DHCP option 82Yesprotocol / is supportedYes• STP/RSTPYes• RSTPYesproduct function / securityYesproduct functionYes• RSTPYes• NAT/NAPTYes• NAT/NAPTNo• NAT/NAPTNo• WPAWPA2Yes• TKIP/AESYes• TKIP/AESYes• RADIUSYes• RADIUSYes	-	Yes
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		
• SNMP v1     Yes       • SNMP v2     Yes       • SNMP v3     Yes       product functions /VLAN     Yes       product function / URLAN     Yes       product function / URLAN     Yes       product function / DHCP     Yes       product function / DHCP client     Yes       • DHCP client     Yes       • DHCP Option 82     Yes       product functions / redundancy     Yes       product functions / redundancy     Yes       product function / security     Yes       product function     Yes       • ACL - MAC-based     Yes       • management security, ACL-IP based     Yes       • IEEE 802.1x (radius)     Yes       • NAT/NAPT     No       • access protection according to IEEE802.11i     Yes       • TKIP/AES     Yes       protocol / is supported     Yes       • RATINAPT     No		
• SNMP v3       Yes         product function          • function VLAN with IWLAN       Yes         product functions       DHCP         product functions       Yes         product function       Yes         obtCP client       Yes         • DHCP option 82       Yes         product functions / redundancy       Yes         product functions / redundancy       Yes         product functions / security       Yes         obtCP client       Yes         • DHCP option 82       Yes         product functions / security       Yes         e RSTP       Yes         • STP/RSTP       Yes         • RSTP       Yes         e RSTP       Yes         inctions / security       Yes         product function       Yes         • ACL - MAC-based       Yes         • management security, ACL-IP based       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         <		Yes
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
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	product functions / VLAN	
• function VLAN with IWLAN     Yes       product functions / DHCP       product function     Yes       • DHCP client     Yes       • DHCP server     Yes       • DHCP Option 82     Yes       product functions / redundancy     Yes       product functions / redundancy     Yes       • STP/RSTP     Yes       • MSTP     Yes       • RSTP     Yes       product function     Yes       • ACL - MAC-based     Yes       • IEEE 802.1x (radius)     Yes       • NAT/NAPT     No       • access protection according to IEEE802.11i     Yes       • WPA/WPA2     Yes       • TKIP/AES     Yes       protocol / is supported     Yes       • SSH     Yes       • RADIUS     Yes		
product functions / DHCP           product function           • DHCP client           • DHCP server           • DHCP Option 82           product functions / redundancy           protocol / is supported           • STP/RSTP           • RSTP           • RSTP           • RSTP           yroduct functions / security           product function           • ACL - MAC-based           • IEEE 802.1x (radius)           • NAT/NAPT           • NAT/NAPT           • WPA/WPA2           • TKIP/AES           protocol / is supported           • SSH           • KIP/RST	•	Yes
product function     Yes       • DHCP client     Yes       • DHCP Option 82     Yes       product functions / redundancy     Yes       protocol / is supported     Yes       • STP/RSTP     Yes       • MSTP     Yes       • RSTP     Yes       • Product functions / security     Yes       product function     Yes       • RSTP     Yes       • RACL - MAC-based     Yes       • management security, ACL-IP based     Yes       • IEEE 802.1x (radius)     Yes       • NAT/NAPT     No       • access protection according to IEEE802.11i     Yes       • TKIP/AES     Yes       • TKIP/AES     Yes       • RADIUS     Yes		
• DHCP clientYes• DHCP serverYes• DHCP Option 82Yesproduct functions / redundancyprotocol / is supported• STP/RSTPYes• MSTPYes• RSTPYes• RSTPYesproduct functions / securityYesproduct function• ACL - MAC-basedYes• MAC-basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• TKIP/AESYes• TKIP/AESYes• RADIUSYes		
• DHCP serverYes• DHCP Option 82Yesproduct functions / redundancyprotocol / is supported• STP/RSTPYes• MSTPYes• RSTPYes• RSTPYesproduct functions / securityproduct function///////////////////////////////		Vee
• DHCP Option 82Yesproduct functions / redundancyprotocol / is supported• STP/RSTP• STP/RSTP• RSTP• RSTP• RSTPproduct functions / securityproduct function• ACL - MAC-based• Margement security, ACL-IP based• IEEE 802.1x (radius)• NAT/NAPT• NAT/NAPT• WPA/WPA2• TKIP/AES• TKIP/AESprotocol / is supported• SSH• RADIUSYes		
product functions / redundancy         protocol / is supported         • STP/RSTP       Yes         • MSTP       Yes         • RSTP       Yes         product functions / security       Yes         product function       Yes         • ACL - MAC-based       Yes         • management security, ACL-IP based       Yes         • IEEE 802.1x (radius)       Yes         • NAT/NAPT       No         • access protection according to IEEE802.11i       Yes         • TKIP/AES       Yes         protocol / is supported       Yes         • RADIUS       Yes		
protocol / is supported     Yes       • STP/RSTP     Yes       • MSTP     Yes       • RSTP     Yes       product functions / security     Yes       product function        • ACL - MAC-based     Yes       • management security, ACL-IP based     Yes       • IEEE 802.1x (radius)     Yes       • NAT/NAPT     No       • access protection according to IEEE802.11i     Yes       • WPA/WPA2     Yes       • TKIP/AES     Yes       protocol / is supported     Yes       • RADIUS     Yes	•	res
STP/RSTPYesMSTPYesRSTPYesproduct functions / securityYesproduct function• 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• RADIUSYes		
• MSTP • RSTPYesProduct functions / securityproduct function• ACL - MAC-based• ACL - MAC-basedYes• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPT• NAT/NAPT• WPA/WPA2• TKIP/AESYes• SSH• RADIUSYes		Vee
• RSTPYesproduct function• ACL - MAC-basedYes• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYes• protocol / is supportedYes• RADIUSYes		
product functions / securityproduct function• ACL - MAC-based• MAC-basedYes• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPT• access protection according to IEEE802.11iYes• WPA/WPA2• TKIP/AESProtocol / is supported• SSH• RADIUSYes		
product functionYes• 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• RADIUSYes		Yes
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		
• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYes• protocol / is supportedYes• SSHYes• RADIUSYes	•	
• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYes		
• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYes		
• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYes		
• 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
<ul> <li>for hazardous zone</li> </ul>	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	
<ul> <li>EC Declaration of Conformity</li> </ul>	Yes
CE marking	Yes
• C-Tick	Yes
<ul> <li>E1 approval</li> </ul>	Yes
<ul> <li>railway application in accordance with EN 50155</li> </ul>	No
<ul> <li>railway application in accordance with EN 50121-4</li> </ul>	Yes
NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
NEMA4X	Yes
<ul> <li>Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	Yes
<ul> <li>Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	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
<ul> <li>French marine classification society (BV)</li> </ul>	Yes
• DNV GL	Yes
Korean Register of Shipping (KRS)	Yes
Lloyds Register of Shipping (LRS)	Yes
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	Yes
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	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
<ul> <li>to website: Image database</li> </ul>	http://automation.siemens.com/bilddb
<ul> <li>to website: CAx-Download-Manager</li> </ul>	http://www.siemens.com/cax
<ul> <li>to website: Industry Online Support</li> </ul>	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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