## SIEMENS

## Data sheet

## 6GK5784-1AA30-6AB0

product type designation



## W784-1RR (USA)

\*\*\*\*\*\*\*\*\* spare part \*\*\*\*\*\*\*\*\* IWLAN RR access point SCALANCE W784-1RR, only for operation in USA, IEEE 802.11b/g/a/h, Industrial Wireless LAN with rapid roaming (IWLAN) 2.4/5 GHz, up to 54 Mbit/s, WPA2/802.11l/11E, observe national approvals, DC 24 V, IP30 (-20-+60 °C) 2x ext. antenna connections 1 radio interface, PoE, RJ45 (twisted pair) socket scope of delivery: 24 V DC terminal block, only available as spare part.

transfer rate	
transfer rate	
with WLAN / maximum	54 Mbit/s
for Industrial Ethernet	10, 100 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	100 Mbit/s
transfer rate / note	Due to the simultaneous use of several radio channels, a transmission rate of 108 Mbit/s is possible (turbo mode)
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>	4-pole screw terminal, PoE
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	No
memory	
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	No
interfaces / wireless	
number of radio cards / permanently installed	1
number of electrical connections / for external antenna(s)	2
type of electrical connection / for external antenna(s)	R-SMA (socket)
product feature / external antenna can be mounted directly on device	Yes
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage	
<ul> <li>from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	48 V
consumed current	
• at DC / at 24 V / typical	0.23 A
• at DC / at 48 V / typical	0.12 A
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical</li> </ul>	0.12 A

power loss [W]	o.w
• at DC / at 24 V / typical	6 W
• at DC / at 48 V / typical	6 W
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical</li> </ul>	6 W
supply voltage / 1	
from terminal block	24 V
supply voltage / 2	
from terminal block	48 V
ambient conditions	
ambient temperature	
during operation	-20 +60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	90 %
ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W784- x/xRR or W74x-1 product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.
protection class IP	IP30
design, dimensions and weights	
width / of the enclosure / without antenna	100 mm
height / of the enclosure / without antenna	205 mm
depth / of the enclosure / without antenna	20 mm
net weight	0.29 kg
fastening method	For mounting on 35 mm DIN and S7-300 mounting rail, an additional adapter plate is required
<ul> <li>S7-1500 rail mounting</li> </ul>	No
wall mounting	Yes
radio frequencies	
operating frequency	
<ul> <li>for WLAN in 2.4 GHz frequency band</li> </ul>	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 / ge	neral
product function / Access Point Mode	Yes
product function / client Mode	Yes
number of SSIDs	8
product function	
product function <ul> <li>dual client</li> </ul>	Yes
product function • dual client • iHOP	Yes Yes
product function • dual client • iHOP • iPCF Access Point	Yes Yes Yes
product function • dual client • iHOP • iPCF Access Point • iPCF client	Yes Yes Yes
product function • dual client • iHOP • iPCF Access Point • iPCF client • iPCF-MC Access Point	Yes Yes Yes No
product function • dual client • iHOP • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client	Yes Yes Yes No Yes
product function • dual client • iHOP • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client number of iPCF-capable radio modules	Yes Yes Yes No
product function • dual client • iHOP • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client number of iPCF-capable radio modules product functions / management, configuration, engineering	Yes Yes Yes No Yes 1
product function • dual client • iHOP • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client	Yes Yes Yes No Yes
product function • dual client • iHOP • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client product function	Yes Yes Yes No Yes 1
product function • dual client • iHOP • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client product function • CLI	Yes Yes Yes Yes No Yes 1
product function	Yes Yes Yes Yes No Yes 1 8 8 Yes Yes
product function <ul> <li>dual client</li> <li>iHOP</li> <li>iPCF Access Point</li> <li>iPCF client</li> <li>iPCF-MC Access Point</li> <li>iPCF-MC client</li> </ul> number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client product function <ul> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> </ul>	Yes Yes Yes Yes No Yes 1 8 8 Yes Yes Yes
product function <ul> <li>dual client</li> <li>iHOP</li> <li>iPCF Access Point</li> <li>iPCF client</li> <li>iPCF-MC Access Point</li> <li>iPCF-MC client</li> </ul> number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client product function <ul> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> </ul>	Yes Yes Yes Yes No Yes 1 8 Yes Yes Yes Yes Yes
product function <ul> <li>dual client</li> <li>iHOP</li> <li>iPCF Access Point</li> <li>iPCF client</li> <li>iPCF-MC Access Point</li> <li>iPCF-MC client</li> </ul> number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client product function <ul> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> <li>configuration with STEP 7</li> </ul>	Yes Yes Yes Yes No Yes 1
product function <ul> <li>dual client</li> <li>iHOP</li> <li>iPCF Access Point</li> <li>iPCF client</li> <li>iPCF-MC Access Point</li> <li>iPCF-MC client</li> </ul> <li>number of iPCF-capable radio modules</li> <li>product functions / management, configuration, engineering         <ul> <li>number of manageable IP addresses / in client</li> <li>product function                  <ul> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> <li>configuration with STEP 7</li> <li>configuration with STEP 7 in the TIA Portal</li> </ul> </li> </ul></li>	Yes Yes Yes Yes No Yes 1
product function <ul> <li>dual client</li> <li>iHOP</li> <li>iPCF Access Point</li> <li>iPCF client</li> <li>iPCF-MC Access Point</li> <li>iPCF-MC client</li> </ul> number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client product function <ul> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> <li>configuration with STEP 7</li> <li>configuration with STEP 7 in the TIA Portal</li> <li>operation with IWLAN controller</li> </ul>	Yes Yes Yes Yes No Yes 1 8 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
product function <ul> <li>dual client</li> <li>iHOP</li> <li>iPCF Access Point</li> <li>iPCF client</li> <li>iPCF-MC Access Point</li> <li>iPCF-MC client</li> </ul> number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client product function <ul> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> <li>configuration with STEP 7</li> <li>configuration with STEP 7 in the TIA Portal</li> <li>operation with IWLAN controller</li> <li>operation with Enterasys WLAN controller</li> </ul>	Yes Yes Yes Yes No Yes 1 Yes Yes Yes Yes Yes Yes Yes Yes Yes No No
product function <ul> <li>dual client</li> <li>iHOP</li> <li>iPCF Access Point</li> <li>iPCF client</li> <li>iPCF-MC Access Point</li> <li>iPCF-MC client</li> </ul> number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client product function <ul> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> <li>configuration with STEP 7</li> <li>configuration with STEP 7 in the TIA Portal</li> <li>operation with IWLAN controller</li> <li>iQoS</li> </ul>	Yes Yes Yes Yes No Yes 1
product function <ul> <li>dual client</li> <li>iHOP</li> <li>iPCF Access Point</li> <li>iPCF client</li> <li>iPCF-MC Access Point</li> <li>iPCF-MC client</li> </ul> number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client product function <ul> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> <li>configuration with STEP 7</li> <li>configuration with STEP 7 in the TIA Portal</li> <li>operation with IWLAN controller</li> <li>iQoS</li> <li>forced roaming with IWLAN</li> </ul>	Yes Yes Yes Yes No Yes 1 8 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
product function <ul> <li>dual client</li> <li>iHOP</li> <li>iPCF Access Point</li> <li>iPCF client</li> <li>iPCF-MC Access Point</li> <li>iPCF-MC client</li> </ul> number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client product function <ul> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> <li>configuration with STEP 7</li> <li>configuration with STEP 7 in the TIA Portal</li> <li>operation with IWLAN controller</li> <li>iQoS</li> </ul>	Yes Yes Yes Yes No Yes 1 8 8 Yes Yes Yes Yes Yes Yes Yes Yes Yes No No No No Yes

• KMPYes• KITPYes• KITPYes• KITPYes• KITPYes• LDPYes• LDPYes• MMT- device specific informationYes• device for the device informationYes• SNNP V3Yes• SNNP V3Yes• MPCP deviceYes• device for device informationYes• device for device informationYes• MPCP deviceYes• device for device informationYes• device for device information <th></th> <th></th>		
• HTTPYes• HTTPYes• TFTPYes• LDPYes• LDPYes• LMD- exect-specific intromotion designationYes• LMM- ingent west designation/taction designationYes• RMM- ingent west designation/taction designationYes• Product function (IndepositionYes• Product function (Indeposition)Yes• exect-specific intromotion (IP-Alee)Yes• exect-specific intromotion (IP-Alee)Yes	• ICMP	Yes
• FITPSYes• LDPYes• LDPYes• LDPYes• LDPYes• LDPYes• LDPYes• LMM - logic revel designation close designationYes• DAME - logic revel designation close designationYes• DAME - logic revel designation close designationYes• Product functions / HappensiteYes• RAM - logic revel designation close designationYes• RAM - logic revel designation close designationYes• RAM - logic revel designation rever designation revel designation rever designat	• Telnet	Yes
• FTPYes• LDPYes• LMDYes• LMDYes	• HTTP	Yes
• CCPYes• LEPYes• LEPYes• LEPYes• LEPYes• LEPYes• LEND - device specific informationYes• MAI - fighter level designation devices on evel functions / degradesYesproduct functions / degradesYes• IFROFINET 10 disgnasisYes• IFROFINET 10 disgnasisYes• Connection monitoring IP-AliveYes• Connection monitoring IP-AliveYes• Staff AreaYes• Ded FavoreYes• Ded FavoreYes• Staff AreaYes• Staff Area <td< td=""><td>• HTTPS</td><td>Yes</td></td<>	• HTTPS	Yes
. ILDPYesIdentification & nainenance functionYes• BMD - device-specific informationYes• BMD - device-specific informationYes• RMD Find revel designation/tocation designationYesproduct function of allangoisticYes• RND FINE TIO diagnosticYes• NRD FINE TIO diagnosticYes• NRD FINE TIO diagnosticYes• connection monitoring FAvicYes• connection monitoring FAvicYes• connection monitoring FAvicYes• SNNP V3Yes• SNNP V3Yes </td <td>• TFTP</td> <td>Yes</td>	• TFTP	Yes
Identification & maintenance function         Yes           • IBMO - device specific information         Yes           product functions? / alignation/cation designation         Yes           • PROFINE TI O diagnoids         Yes           • Inforcheck         Yes           • Inforcheck         Yes           • Somedian monitoring IP-Alive         Yes           • Product function         •           • OthCP Search         Yes           • Product function         •           • OthCP Search         Yes           • Product functions         *	• DCP	Yes
• K80- device specific informationYesproduct function of adiagnotic information designationYesproduct function of adiagnotic information designationYes• RRGPREFT to diagnosticYes• INPORT to diagnosticYes• concection monitoring IP-AireYes• concection was AeroscoutYes• concection Was AroscoutYes• concection Was AroscoutYes• product function / redundancyYes• product functions / redundancyYes• concection y supportedYes• concection y supportedYes• concection y functionYes• concection y function <td>• LLDP</td> <td>Yes</td>	• LLDP	Yes
• eMA - higher level designation/location designationYesproduct function of disposationsYes• FROFINET IC diagnosisYes• fink chockYes• contraction monitoring IP-AliveYes• contraction via AnoxocutYes• contraction via AnoxocutYes• protocol / is supportedYes• SIMP viaYes• SIMP viaYes• SIMP viaYes• protocol / is supportedYes• SIMP viaYes• Protocol / Incitions / VLANYes• Product functions / VLANYes• Product functions / VLANYes• Product functions / Product func	identification & maintenance function	
product functions / diagnostics         Yes           inkin check         Yes           optication via Aeroscout         Yes           inkin check         Yes           product function         Yes           inkin check         Yes           product functions / diagnostics         Yes           product functions / soundary         Yes           product function / soundary         Yes           product function / soundary         Yes           incores / soundary         Yes           product function / soundary         Yes           incores / soundary         Yes           incores / soundary         Yes           incores / sounda	<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
product function         Yes           • Ink check         Yes           • Ink check         Yes           • contraction monitoring IP-Alive         Yes           • product functiona / VLAN         Yes           • SNMP v3         Yes           • SNMP v3         Yes           • Indicitor VLAN with INVLAN         Yes           • Product function         • Indicitor VLAN           • OthCP Beaver         Yes           • DhCP Beaver         Yes           product functions / secondary         Yes           • OthCP Beaver         Yes           • OthCP Beaver         Yes           product functions / secondary         Yes           • No         *           • No         *           • STR/RSTP         Yes           • No         *           • No         *           • No	<ul> <li>I&amp;M1 - higher level designation/location designation</li> </ul>	Yes
• FROFINET I/O dagnosisYes• InterdectYes• connectom monitoring IP-AlweYes• connectom monitoring IP-AlweYes• StandardYes• protocol / is supportedYes• protocol / is supportedYes• SINAP v1Yes• SINAP v2Yes• SINAP v3Yes• protocol / is supportedYes• Innefion VLAN with INULANYes• product functions / VLANYes• product function / VLANYes• Innefion VLAN with INULANYes• DHCP ClinitYes• DHCP ClinitYes• DHCP ServerYes• product function / redundancyYes• product functions / redundancyYes• DHCP ServerYes• DHCP ServerYes• DHCP ServerYes• DHCP ServerYes• DHCP ServerYes• Protocol / is supportedYes• STIPRSTPYes• StandardYes• StandardYes </td <td>product functions / diagnostics</td> <td></td>	product functions / diagnostics	
nik checkYes• connection monitoring IP-AliveYes• isoanization via AcroscoutYes• SNMP viaYes• Sname via Statistic	product function	
• connection was here sourceYes• Contraction was here sourceYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• SNMP v3Yes• SNMP v3Yes• SNMP v3Yes• SNMP v3Yes• function VLNNYes• function VLNNYes• function VLNN with NULANYes• function VLNN with NULANYes• function VLNNYes• OHCP baserYes• OHCP serverYes• OHCP contraction VLNYes• function redundancyYes• function redund	PROFINET IO diagnosis	Yes
• localization via AeroscoutYes• SystogYes• SystogYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• SNMP v3Yes• function s1 VLANYesproduct functions / VLANYes• function v1(AN with IMLANYes• function s1 DHCPYes• function s1 DHCPYesproduct functions / DHCPYes• DHCP clientYes• DHCP clientYes• DHCP scientYes• DHCP scientYes• STP/PRSTPYesproduct functions / supportedYes• STP/PRSTPYes• STP/PRSTPYes• ACL - MAC-basedNo• ACL - MAC-basedYes• ACL - MAC-basedYes<	link check	Yes
- SyslagYesprotect // is supportedYes- SNMP v2Yes- SNMP v3Yesprotect functions / VLANYesprotect functions / VLANYesprotect functions / VLANYesprotect functions / DLOPYesprotect functions / Protect // SupportedYes- DHCP clentYes- DHCP clentYes- DHCP clentYes- STP/RSTPYesprotect functions / securityYesprotect functions / securityYes- ACL - MAC-basedNo- EEE #02.1x (radius)Yes- NATI-NAFTYes- SSHYes- SSHYesprotect function / is supportedYes- SSHYes- S	<ul> <li>connection monitoring IP-Alive</li> </ul>	Yes
protocol / is supported         Yes           • SNMP V1         Yes           • SNMP V2         Yes           • SNMP V3         Yes           product functions //LAN         Yes           • function VLAN wit MULAN         Yes           • function VLAN wit MULAN         Yes           • function VLAN wit MULAN         Yes           • DHCP clent         Yes           • DHCP Server         Yes           product functions / rodundancy         Yes           product functions / rodundancy         Yes           product functions / supported         Yes           ordulat function         Yes           product functions / supported         Yes           ordulat function         Yes           ordulat function / supported         Yes           • ACL - MAC-based         Yes           • Nat/NAPT         Yes           • Nat/NAPT         Yes           • Nat/NAPT         Yes           • Nat/NAPT         Yes           • SSH         Yes           protocol / is supported         Yes           • SSH         Yes           standards spectrationation (SIMATIC Time)         Yes           • for safety / from CSA and UL <td><ul> <li>localization via Aeroscout</li> </ul></td> <td>Yes</td>	<ul> <li>localization via Aeroscout</li> </ul>	Yes
protocol / is supported         Yes           SNMP v1         Yes           SNMP v2         Yes           SNMP v3         Yes           product function         Yes           • function VLAN wit MVLAN         Yes           • function S / DHOP         Yes           product function         Yes           • DHCP clent         Yes           • DHCP server         Yes           product functions / function         Yes           ordurt functions / fordundancy         Yes           product functions / fordundancy         Yes           product functions / supported         Yes           ordure function         Yes           product functions / supported         Yes           ordure function         Yes           ordure function / functio	• SysLog	Yes
SNMP v1YesSNMP v2YesSNMP v3Yesproduct functions / VLANYesproduct functions / VLANYesproduct functions / DHOPYesproduct functions / DHOPYesproduct functions / DHOPYesproduct functions / CompanyYesproduct functions / SupportedYes• STPIRSTPYesproduct functionYes• ACC - MAC-basedYes• MacDessedYes• MacDessedYes• MacDessedYes• MacDessedYes• MacDessedYes• NaTNAPATYes• ACC-Sprotechina caccording to IEEE802.111Yes• WPAWPA2Yes• TRIPAESYes• TRIPAESYes• SMTPYes• SMTPYes• SMATC fune synchronization (SIMATIC Time)Yes• Cor taskingYe		
• SNMP v2Yes• SNMP v3Yesproduct functionYes• function VLAN with WLANYes• function VLAN with WLANYesproduct functionYes• DHCP clientYes• DHCP clientYes• DHCP clientYes• DHCP clientYes• DHCP clientYes• DHCP clientYesproduct functions / fourdancyYesproduct functions / supportedYes• STP/RSTPYesproduct functions / supportedYes• ACL - MAC-basedYes• ACL - MAC-basedYes• MATNAPTYes• STP/STS /Yes• STP/STS /Yes• STP/STS /Yes• STP /Yes<		Yes
• SNMP v3Yesproduct functions / VLANYesproduct functions / DHCPYesproduct functions / DHCPYesproduct functions / DHCPYeso DHCP serverYesproduct functions / supportedYeso DHCP serverYesproduct functions / supportedYeso DHCP serverYesproduct functions / securityYesproduct functions / securityYesintensity / SecurityYesproduct functions / security / YesYesintensity / Security / YesYesintensity / Security / YesYesintensity / Security / YesYesintensity / Security / YesYesprotocol / is supportedYesis ShTPYesis ShTPYesis ford for FMYesis for FMYes </td <td></td> <td></td>		
product functions / VLAN         yeas           ofunction VLAN with MUAN         Yes           product functions / DHCP         ////////////////////////////////////		
product function         Yes           inuction VLAN with IWLAN         Yes           product functions / DHCP         Product functions / DHCP ellent           • DHCP ellent         Yes           product functions / DHCP         Yes           product functions / PHCP ellent         Yes           product functions / redundancy         Yes           product functions / security         Yes           product function         security           product functions / security         Yes           of ACL - MAC-based         No           • NAT/NAPT         Yes           • NAT/NAPT         Yes           • NAT/NAPT         Yes           • NAT/NAPT         Yes           protocol / is supported         Yes           • TKIP/ACS         Yes           protocol / is supported         Yes           • SHT         Yes           protocol / is supported         Yes           • SINTP         Yes           • for FIM         FM 3811: Class I, Division 2, Groups A,B,C,D, T4 / Class I, Zone 2, Group IIC, T4           • for safery / from CSA and UL         UL 60980-1, CSA C22 2 No. 60960-1           cettraterds sublitity         Yes           • CE caraking         Yes <td></td> <td></td>		
• function VLAN with IWLAN         Yes           product functions / DHCP		
product functions / DHCP           product function           • DHCP client           • DHCP server           product functions / redundancy           product functions / redundancy           product functions / redundancy           product functions / redundancy           product functions / security           product function           • ACL - MAC-based           • ACL - MAC-based           • CACL - MAC-based           • CACL - MAC-based           • No           • EEE 802.1x (radius)           • NAT/NAPT           • access protection according to IEEE902.11i           • Ves           • NAT/NAPT           • access protection according to IEEE902.11i           • Ves           • TKIP/AES           • Product function / time           • protector / is supported           • SSH           • SIMATIC time synchronization (SIMATIC Time)           ves           • SIMATIC time synchronization (SIMATIC Time)           • satisfications, approvals           standard           • for FM           • for safety / from CSA and UL           • CE clearation of Conformity           • CE clearation of Conformity	•	Vec
product function         Yes           DHCP client         Yes           product functions / rodundancy         ************************************		1 es
• DHCP clientYesDHCP serverYesproduct functions / redundancyprotocol / is supported• STP/RSTPYesproduct functions / securityproduct functions / securityproduct function• ACL - MAC-basedYes• management security, ACL-IP basedNo• EEE 802.1x (radius)Yes• NAT/NAPTYes• access protection according to IEEE802.111Yes• WPA/WPA2Yes• TKIP//AESYesprotocol / is supportedYes• SNTPYes• SIMATIC time sprotronization (SIMATIC Time)Nostandard, specifications, approvalsYesstandard, specifications, approvalsYes• for FMFM 36111: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4• for safety / from CSA and ULUL 60950-1, CSA C22.2 No. 60950-1cettificate of suitabilityYes• CE Declaration of ConformityYes• CE Calcaration of ConformityYes• CT rakYes• CT rakYes• CT rakYes• CT rakYes• CT rakYes• CE Declaration of ConformityYes• CT rakYes• CT rakYes• CT rakYes• CT rakYes• Et approvalNo• railway application in accordance with EN 50155No• NEMA4XNo• Power-over-Ethernet according IEEE802.3at for type 1		
• DHCP server         Yes           protocot functions / rodundancy               imagement security            protocot / is supported              Yes           product functions / security              Yes           product functions / security              Yes           product function              Yes                exaces protection according to IEEE802.111             WPA/WPA2             Yes              Yes                in Constrained to according to IEEE802.111             WPA/WPA2             Yes              Yes                rotocol / is supported             sSNH          Yes                rotocol / is supported             sSNH          Yes                 rotocol / is supported             sSNH          Yes                 rotocol / is supported             sSNTP          Yes                 sontrom contraitons (IMATIC Time)          No                 standard             sfor FM             sortextions / from CSA and UL             Usofsout / Conformity             Yes             scalabulty from CSA and UL             so Subcot / from CSA and UL             so Conformity             Yes             scalabulty res             scalabulty             rolibulty application in accordance with EN 50		
product functions / redundancy           protocol / is supported           • STP/RSTP         Yes           product functions / security           product functions / security           • ACL - MAC-based         Yes           • management security, ACL-IP based         No           • IEEE 802.1x (radius)         Yes           • NATINAPT         Yes           • ACL - MAC-based         Yes           • NATINAPT         Yes           • access protection according to IEEE802.111         Yes           • WPAA/WPA2         Yes           • TKIP/AES         Yes           • protocol / is supported         Yes           • SSH         Yes           protocol / is supported         Yes           • SIMATIC time synchronization (SIMATIC Time)         No           standard         • for FM         FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class I, Zone 2, Group IIC, T4           • for safety / from CSA and UL         UL 60950-1, CSA C22 2 No. 60950-1           certificate of suitability         Yes           • CC Declaration of Conformity         Yes           • CE marking         Yes           • CTick         Yes           • CE marking         Yes           • CE ma		
protocol / is supported     Yes       product functions / security        product functions        • ACL - MAC-based     Yes       • management security, ACL-IP based     No       • IEEE 802.1x (radius)     Yes       • NAT/IAPT     Yes       • access protection according to IEEE802.11i     Yes       • WPA/WPA2     Yes       • TKIP/AES     Yes       protocol / is supported     Yes       • SSH     Yes       protocol / is supported     Yes       • SSH     Yes       protocol / is supported     Simatric time synchronization (SIMATIC Time)       protocol / is supported     Simatric time synchronization (SIMATIC Time)       standard     for FM     FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4       • for safely / from CSA and UL     UL 60950-1, CSA C22.2 No. 60950-1       certificate of suitability     Yes       • EC Declaration of Conformity     Yes       • CT ick		Yes
• STP/RSTP       Yes         product functions / security         product function         • ACL - MAC-based         • ACL - MAC-based         • ananagement security, ACL-IP based         • namagement security, ACL-IP based         • IEEE 802.1x (radius)         • No         • NATINAPT         • AATINAPT         • WPA/WPA2         • TKIP/AES         protocol / is supported         • SSH         protocol / is supported         • SNTP         • SIMATIC time synchronization (SIMATIC Time)         ves         • for FM         • for FM         • for Setifications, approvals         standard         • for FM         • for Safety / from CSA and UL         certificate of suitability         • EC Declaration of Conformity         • EC Declaration of Conformity         • EC Declaration of Conformity         • EC Declaration in accordance with EN 50155         No         • CTick       Yes         • EC approval       No         • FIMAY       Yes         • EC I approval       No         • Fi approval       No         • EXE		
product functions / security           product function           • ACL - MAC-based         Yes           • management security, ACL-IP based         No           • EEEE 802.1x (radius)         Yes           • NAT/NAPT         Yes           • access protection according to IEEE802.11i         Yes           • WPAWPA2         Yes           • TKIP/AES         Yes           protocol / is supported         Yes           • SSH         Yes           protocol / is supported         Yes           • SNTP         Yes           • SIMATIC time synchronization (SIMATIC Time)         No           standards, specifications, approvals         Yes           standard         FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class I, Zone 2, Group IIC, T4           • for safety / from CSA and UL         UL 60950-1, CSA C22.2 No. 60950-1           certificate of suitability         Yes           • EC Declaration of Conformity         Yes           • CE marking         Yes           • CE marking         Yes           • CE marking         Yes           • CE is approval         No           • Tai application in accordance with EN 50155         No           • Fi approval         No		
product function <ul> <li>ACL - MAC-based</li> <li>management security, ACL-IP based</li> <li>management security, ACL-IP based</li> <li>No</li> <li>IEEE 802.1x (radius)</li> <li>Yes</li> <li>NATINAPT</li> <li>Yes</li> <li>access protection according to IEEE802.111</li> <li>Yes</li> <li>access protection according to IEEE802.111</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>Protocol / is supported</li> <li>SSIM</li> <li>Yes</li> <li>SIMATIC time synchronization (SIMATIC Time)</li> <li>Standards. specifications, approvals</li> <li>standard</li> <li>for FM</li> <li>FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC. T4</li> <li>for safety / from CSA and UL</li> <li>UL 60950-1, CSA C22.2 No. 60950-1</li> <li>certificate of suitability</li> <li>EC Declaration of Conformity</li> <li>Yes</li> <li>CE marking</li> <li>Certick</li> <li>Yes</li> <li>E1 approval</li> <li>No</li> <li>raliway application in accordance with EN 50155</li> <li>NeEMA4X</li> <li>No</li> <li>Power-over-Ethernet according IEEE802.3at for type 1</li> <li>and IEEE802.3af</li> <li>fer Supported</li> <li>Yes</li> <li>Standards</li> <li>Yes</li> <li< td=""><td></td><td>Yes</td></li<></ul>		Yes
ACL - MAC-basedYes• Management security, ACL -IP basedNo• IEEE 802.1X (radius)Yes• NAT/NAPTYes• access protection according to IEEE802.111Yes• WPAWPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYes• SIMATIC time synchronization (SIMATIC Time)Yes• SIMATIC time synchronization (SIMATIC Time)No• SIMATIC time synchronization (SIMATIC Time)Yes• for FMFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class I, Zone 2, Group IIC, T4• for safety / from CSA and ULUL 60950-1, CSA C22.2 No. 60950-1certificate of suitabilityYes• CC beclaration of ConformityYes• CE Declaration of ConformityYes• CE narkingYes• CTickYes• CTickYes• CE In approvalNo• CE markingYes• CE narkingYes• CE is approvalNo• CE markingYes• CE narkingYes• CE is approvalNo• NEMA4XNo• NEMA4XNo• NEMA4XNo• NEMA4XNo• NEMA4XYes• CE thermet according IEEE802.3at for type 1Yes• CE thermet according IEEE802.3at for type 1Yes <tr <td="">&lt;</tr>		
• management security, ACL-IP basedNo• IEEE 802.1x (radius)Yes• NAT/NAPTYes• access protection according to IEEE802.11iYes• WPAWPA2Yes• TKIP/AESYes• protocol / is supportedYes• SSHYes• protocol / is supportedYes• SSHYes• SSHYes• SSHYes• SIMATIC time synchronization (SIMATIC Time)No• SIMATIC time synchronization (SIMATIC Time)No• for FMFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4• for safety / from CSA and ULUL 60950-1, CSA C22.2 No. 60950-1• certificate of suitabilityYes• CE markingYes• C- TickYes• C- TickYes• TaipprovalNo• NEMA4XNo• NEMA4X </td <td>•</td> <td></td>	•	
• IEEE 802.1x (radius)Yes• NAT/NAPTYes• access protection according to IEEE802.11iYes• wPA/WPA2Yes• TKIP/AESYesprotocol / is supported• SSHYesprotocol / is supported• SSHYesprotocol / is supported• SIMATIC time synchronization (SIMATIC Time)Yesstandards, specifications, approvalsstandardFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class I, Zone 2, Group IIC, T4• for safety / from CSA and ULUE 60950-1, CSA C22.2 No. 60950-1certificate of suitabilityYes• CE markingYes• C. TickYes• E1 approvalNo• Radius provalNo• NEMAAXNo• Nemanue Neurone Neurone Neurone N		Yes
• NAT/NAPTYes• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYesprotocol / is supportedYes• SNTPYesstandards, specifications, approvalsYesstandardFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4• for FMFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4• for safety / from CSA and ULUE 60950-1, CSA C22.2 No. 60950-1• certificate of suitabilityYes• CE Declaration of ConformityYes• CE Declaration of ConformityYes• CE TrickYes• C-TickYes• C-TickYes• F1 approvalNo• NeMAXXNo• NeMAXAXNo• NeMAXAXNo• NeMAXAXNo• NeMAXAXNo• NeMAXAXYes• NeMAXAXNo• NeMAXAXNo• NeMAXAXNo• NeMAXAXNo• NeMAXAXNo• NemaxYes• NemaxNo• NemaxNo• NemaxYes• NemaxNo• Nemax <td>- ·</td> <td></td>	- ·	
• access protection according to IEEE802.11iYes• WPAWPA2Yes• TKIP/AESYesprotocol / is supported*• SSHYesproduct functions / time*protocol / is supported*• SSHYessolar of time synchronization (SIMATIC Time)Nostandards, specifications, approvals*standard*• for FMFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class I, Zone 2, Group IIC, T4• for safety / from CSA and ULUL 60950-1, CSA C22.2 No. 60950-1certificate of suitability*• EC Declaration of ConformityYes• CE markingYes• CE markingYes• CTickYes• F1 approvalNo• Tailway application in accordance with EN 50155No• NEMA4XNo• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3atYes	<ul> <li>IEEE 802.1x (radius)</li> </ul>	Yes
• WPAWPA2Yes• TKIP/AESYesprotocol / is supported • SSHYesproduct functions / time*********************************	NAT/NAPT	Yes
• TKIP/AESYesprotocol / is supportedYesproduct functions / timeYesprotocol / is supported//////////////////////////////	<ul> <li>access protection according to IEEE802.11i</li> </ul>	Yes
protocol / is supported         Yes           product functions / time	• WPA/WPA2	Yes
• SSH       Yes         product functions / time	• TKIP/AES	Yes
product functions / time         protocol / is supported         • SNTP         • SIMATIC time synchronization (SIMATIC Time)         No         standards, specifications, approvals         standard         • for FM         • for safety / from CSA and UL         UL 60950-1, CSA C22.2 No. 60950-1         certificate of suitability         • EC Declaration of Conformity         Yes         • C2 marking         • C-Tick         • E1 approval         • railway application in accordance with EN 50155         • No         • NEMA4X         • Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	protocol / is supported	
protocol / is supported          • SNTP       Yes         • SIMATIC time synchronization (SIMATIC Time)       No         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 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       No         • nailway application in accordance with EN 50155       No         • NEMA4X       No         • Power-over-Ethermet according IEEE802.3at for type 1 and IEEE802.3af       Yes	• SSH	Yes
• SNTPYes• SIMATIC time synchronization (SIMATIC Time)Nostandards, specifications, approvalsStandards, specifications, approvalsstandardFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4• for safety / from CSA and ULUL 60950-1, CSA C22.2 No. 60950-1certificate of suitabilityUL 60950-1, CSA C22.2 No. 60950-1certificate of suitabilityYes• EC Declaration of ConformityYes• C-TickYes• E1 approvalNo• railway application in accordance with EN 50155No• NEMA4XNo• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3afYes	product functions / time	
• SIMATIC time synchronization (SIMATIC Time)       No         standards, specifications, approvals       standard         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         • E1 approval       No         • railway application in accordance with EN 50155       No         • NEMA4X       No         • Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af       Yes	protocol / is supported	
standards, specifications, approvals         standard         • for FM         • 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         • C-Tick         • E1 approval         • railway application in accordance with EN 50155         • NEMA4X         • Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	• SNTP	Yes
standard       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         • EC Declaration of Conformity       Yes         • CE marking       Yes         • E1 approval       No         • railway application in accordance with EN 50155       No         • NEMA4X       No         • Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af       Yes	<ul> <li>SIMATIC time synchronization (SIMATIC Time)</li> </ul>	No
• for FMFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4• for safety / from CSA and ULUL 60950-1, CSA C22.2 No. 60950-1• certificate of suitabilityYes• EC Declaration of ConformityYes• CE markingYes• C-TickYes• E1 approvalNo• railway application in accordance with EN 50155No• NEMA4XNo• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3atYes	standards, specifications, approvals	
T4• for safety / from CSA and ULUL 60950-1, CSA C22.2 No. 60950-1certificate of suitabilityYes• EC Declaration of ConformityYes• CE markingYes• C-TickYes• E1 approvalNo• railway application in accordance with EN 50155No• NEMA4XNo• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3afYes	standard	
certificate of suitabilityYesEC Declaration of ConformityYesCE markingYesC-TickYesE1 approvalNo• railway application in accordance with EN 50155No• NEMA4XNo• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3afYes	• for FM	
certificate of suitabilityYesEC Declaration of ConformityYesCE markingYesC-TickYesE1 approvalNo• railway application in accordance with EN 50155No• NEMA4XNo• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3afYes	<ul> <li>for safety / from CSA and UL</li> </ul>	UL 60950-1, CSA C22.2 No. 60950-1
EC Declaration of ConformityYes• CE markingYes• C-TickYes• E1 approvalNo• railway application in accordance with EN 50155No• NEMA4XNo• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3afYes		
• CE markingYes• C-TickYes• E1 approvalNo• railway application in accordance with EN 50155No• NEMA4XNo• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3afYes	-	Yes
• C-TickYes• E1 approvalNo• railway application in accordance with EN 50155No• NEMA4XNo• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3afYes	-	
• E1 approvalNo• railway application in accordance with EN 50155No• NEMA4XNo• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3afYes	-	
<ul> <li>railway application in accordance with EN 50155</li> <li>NEMA4X</li> <li>Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af</li> </ul>		
NEMA4X No     Power-over-Ethernet according IEEE802.3at for type 1     and IEEE802.3af     Yes		
Power-over-Ethernet according IEEE802.3at for type 1 Yes and IEEE802.3af		
and IEEE802.3af		
standard for wireless communication	and IEEE802.3af	
	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	No
wireless approval	For operation in the USA, you will find more information under: www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classification	
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	Yes
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No
Germanische Lloyd (GL)	Yes
Korean Register of Shipping (KRS)	Yes
Lloyds Register of Shipping (LRS)	Yes
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	Yes
Polski Rejestr Statkow (PRS)	No
standards, specifications, approvals / hazardous environmen	ts
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X (only approved in combination with an enclosure with degree of protection of at least IP 54)
accessories	
accessories	24 V DC screw terminal included in scope of delivery
further information / internet links	
internet link	
<ul> <li>to website: TIA Selection Tool</li> </ul>	http://www.siemens.com/tia-selection-tool
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	http://www.siemens.com/tia-selection-tool
• to the website: IWLAN	http://www.siemens.com/iwlan
<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> </ul>	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
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, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. Siemens' product send solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under https://www.siemens.com/cert. (V4.6)

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