SIEMENS

Data sheet

6GK5774-1FY00-0TB0

product type designation



W774-1 M12 EEC (USA)

IWLAN Access Point, SCALANCE W774-1 M12 EEC, 1 radio, 2 R-SMA antenna port, iFeatures support via key plug, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross data rate 300 Mbit/s, 2x M12 max. 100 Mbit/s, PoE integrated 2-port switch, redundant 24 V DC,M12 A-coded IP30, -30... 65 °C, plug slot WPA2/802.11i/e,conformal coating EN 50155, observe national approvals! CERT ID: MSN-W1-M12-E2, scope of delivery: Manuals on CD-ROM, English/German; M12 sealing caps, for operation in the USA

transfer rate	
transfer rate	
 with WLAN / maximum 	300 Mbit/s
 for Industrial Ethernet 	10, 100 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	100 Mbit/s
interfaces	
number of electrical connections	
 for network components or terminal equipment 	2
 for power supply 	1
 for redundant voltage supply 	1
type of electrical connection	
 for network components or terminal equipment 	M12 interface (4-pole, D-coded), PoE
for power supply	M12 interface (4-pole, A-coded)
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	Yes
memory	
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	Yes
interfaces / wireless	
number of radio cards / permanently installed	1
transmission mode / for multiple input multiple output (MIMO)	2x2
number of spatial streams	2
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	
 from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af 	48 V
consumed current	
• at DC / at 24 V / typical	0.25 A
power loss [W]	

	0.111
at DC / at 24 V / typical	6 W
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	6 W
ambient conditions	
ambient temperature	
during operation	-30 +65 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	100 %
ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W774-1 M12 EEC 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	26 mm
height	156 mm
depth	127 mm
width / of the enclosure / without antenna	26 mm
height / of the enclosure / without antenna	147 mm
depth / of the enclosure / without antenna	127 mm
net weight	0.52 kg
product feature / conformal coating	Yes
fastening method	wall mounting only if flat mounted
S7-300 rail mounting	Yes
S7-1500 rail mounting 35 mm top bat DIN rail mounting	Yes
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 2.4 GHz frequency band for WLAN in 5 GHz frequency band 	4.9 5.8 GHz; depending on the country approvals
 For WLAN in 5 GH2 requercy band product features, product functions, product components 	
product function / Access Point Mode	Yes
product function / Access Point Mode	Yes
number of SSIDs	4
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 W740 iFeatures'
iPCF-MC Access Point	No
• iPCF-MC client	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'
number of iPCF-capable radio modules	1
product function / iREF	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures'
number of iREF-capable radio modules	1
product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
product functions / management, configuration, engineeri	ing
number of manageable IP addresses / in client	8
product function	
• CLI	Yes
 web-based management 	
	Yes
 MIB support 	Yes Yes
MIB support TRAPs via email	
	Yes
• TRAPs via email	Yes Yes
 TRAPs via email configuration with STEP 7 	Yes Yes Yes
 TRAPs via email configuration with STEP 7 configuration with STEP 7 in the TIA Portal 	Yes Yes Yes
 TRAPs via email configuration with STEP 7 configuration with STEP 7 in the TIA Portal operation with IWLAN controller 	Yes Yes Yes No
 TRAPs via email configuration with STEP 7 configuration with STEP 7 in the TIA Portal operation with IWLAN controller operation with Enterasys WLAN controller 	Yes Yes Yes No No

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Address Resolution Protocol (ARP) Yes Comp		
• CKIPYes• TriferichYes• TITPSYes• TITPSYes• CCPYes• CCPYes </td <td>protocol / is supported</td> <td>N/</td>	protocol / is supported	N/
 Fined Vas HTTPS Vas HTTPS Vas FTP Vas CCP CCP Vas CCP CCP CCP Vas CCP CCP<		
• HTTPYes• HTTPSYes• TCTPYes• LLDPYes• LLDPYes• LLDPYes• LLMPYes• LLMPYes• LLMPYes• LLMPYes• LLMPYes• Proflect functionYes• Proflect functionYes• Proflect functionYes• Proflect functionYes• Proflect functionYes• Proflect function is algorithmYes• Proflect function is algorithmYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• Proflect functionsYes• SNMP v3Yes• SNMP v4Yes• SNMP v4Yes• SNMP v5Yes• SNMP v5Yes• SNMP v4Yes• SNMP v5Yes• SNMP v5Yes• SNMP v6Yes• SNMP v7Yes• SNMP v6Yes• SNMP v7Yes• SNMP v6Yes• SNMP v7Yes• SNMP v6Yes• DHCP CP Oline 32Yes• DHCP CP Oline 12Yes• SNMP v6Yes• SNMP v6Yes• SNMP v7Yes• SNMP v6Yes• SNMP v7Yes• SNMP v6Yes• SNMP v6Yes• SNMP v6Yes• SNMP v7Yes• SNMP v6Yes• SNMP v6Yes		
HTTPS Yes HTTPS Yes HTTPS Yes HTTPS Yes HTTPS Yes Http://wisional.org//wisi		
• FTP Yes • DCP Yes • ILDP Yes • Identification & maintenance function Yes • ISM0 - higher level designation/location designation Yes product function Yes • PROFINET IO designation/location designation Yes • Product function Yes • Inic check No • Contraction monitoring IP-Alive No • Contraction is value of the supported Yes • SMMP v1 Yes • SMMP v2 Yes • SMMP v2 Yes • SMMP v2 Yes • SMMP v3 Yes • SMMP v2 Yes • SMMP v2 Yes • SMMP v2 Yes • SMMP v2 Yes • SMMP v3 Yes • SMMP v4 Yes • SMMP v5 Yes • SMMP v2 Yes • SMMP v3 Yes • SMMP v4 Yes • SMMP v5 Yes • SMMP v5 Yes <td></td> <td></td>		
• CCP Yes • LLDP Yes identification & maintenance function Yes • RM0 - device-specific information Yes • RM0 - functions / diagnostics Yes product functions / diagnostics Yes product functions / diagnostics Yes product functions / diagnostics Yes ordination industring IP-Alive No • connection monitoring IP-Alive No • connection monitoring IP-Alive No • connection monitoring IP-Alive No • systop Yes protocof //is supported Yes • SMMP v2 Yes • SMMP v2 Yes • SMMP v2 Yes • Source VLAN with IVLAN Yes product functions / Alive Yes othCP server Yes • DHCP Option 82 Yes product functions / redundancy Yes product functions / redundancy Yes product functions / supported Yes • STP/RSTP Yes • NSTP <td>• HTTPS</td> <td>Yes</td>	• HTTPS	Yes
• LLDP Yes identification & maintenance function Yes • L&M0 - device-specific information Yes • R&M1 - higher level designation/location designation Yes product functions Yes • PROFINES / disposites Yes • Init check No • connection monitoring IP-Alive No • connection is autoposites Yes • Signation Via Aeroscout Yes • Signation Via Aroscout Yes • Signation Via Aroscout Yes • Product function Yes • OHCP Cherent Yes • DHCP Option 82 Yes • OHCP Cherent Yes • STRPRSTP Yes • STRPRSTP Yes • ACL - MAC-based Yes • MACL Ma	• TFTP	Yes
identification & maintenance function iBM0 - device-specific information iBM1 - higher level designation/cation designation Yes product functions iBM2 - device-specific information product function iBM2 - device-specific information iSM2 - device-specific information iBM2 - device-specific	• DCP	Yes
• #840 - evice-specific informationYes#841 - higher level designation/designation*********************************	• LLDP	Yes
••••••••••••••••••••••••••••••••••••	identification & maintenance function	
product functions / diagnostics PROFINET 10 diagnosis Pres inink check No connection monitoring IP-Alive No consciention monitoring IP-Alive No consciention monitoring IP-Alive No consciention monitoring IP-Alive No consciention monitoring IP-Alive Yes consciention monitoring IP-Alive Yes consciention monitoring IP-Alive Yes consciention monitoring IP-Alive Yes consciention Yes solumetry Yes solumetry Yes product function Yes product functions / redundancy Yes product functions / secontly Yes restrip Yes cocoses protection according to IEEE802.111 <td> I&M0 - device-specific information </td> <td>Yes</td>	 I&M0 - device-specific information 	Yes
product function Yes • Ink check No • connection monitoring IP-Alive No • contraction via Aeroscout Yes • Systog Yes • SIMP V1 Yes • SIMP V3 Yes product functions /VLAN Yes • OhCP client Yes • DhCP server Yes • DhCP client Yes • STPRSTP Yes • DhCP client Yes • STPRSTP Yes • CL - MAC-based Yes • Mattotion Yes • EEE 802.1 kr (radius) Yes • NATINAPT Yes • STPRASE Yes • NATINAPT Yes • CL - MAC-based Yes • EEE 802.1 kr (radius) Yes • STPRASE Yes • STPRASE Yes • STATE Yes • STAT Yes	 I&M1 – higher level designation/location designation 	Yes
• PROFINET IO diagnosis Yes • link check No • connection monitoring IP-Alive No • connection monitoring IP-Alive No • localization via Aeroscout Yes • Systog Yes protocol / is supported Yes • SIMMP v1 Yes • SIMMP v2 Yes • SIMMP v3 Yes • Function /VLAN with IWLAN Yes • function / VLAN with IWLAN Yes • DHCP client Yes • DHCP client Yes • DHCP client Yes • DHCP client Yes • DHCP option 82 Yes product functions / redundancy Yes protocol / is supported • STP/RSTP Yes • MSTP Yes * RSTP Yes * RSTP Yes * management security. ACL -IP based Yes • NATANEPT Yes • NATANEPT Yes • NATANEPT Yes • NATANEPT Yes • SSH Yes	product functions / diagnostics	
• PROFINET IO diagnosis Yes • link check No • connection monitoring IP-Alive No • connection monitoring IP-Alive No • localization via Aeroscout Yes • Systog Yes protocol / is supported Yes • SIMMP v1 Yes • SIMMP v2 Yes • SIMMP v3 Yes • Function /VLAN with IWLAN Yes • function / VLAN with IWLAN Yes • DHCP client Yes • DHCP client Yes • DHCP client Yes • DHCP client Yes • DHCP option 82 Yes product functions / redundancy Yes protocol / is supported • STP/RSTP Yes • MSTP Yes * RSTP Yes * RSTP Yes * management security. ACL -IP based Yes • NATANEPT Yes • NATANEPT Yes • NATANEPT Yes • NATANEPT Yes • SSH Yes	product function	
Inik checkNo• connection monitoring IP-AlveNo• localization via AeroscoutYes• SysLogYes• protocol / is supportedYes• SIMMP v1Yes• SIMMP v2Yes• SIMMP v3Yesproduct functions /VLANYesproduct functions /VLANYesproduct functions /VLANYesproduct functions /DHCPYesproduct functions /DHCPYesproduct functions /DHCPYesproduct functions /DHCPYesproduct functions /DHCPYesproduct functions / SecurityYesproduct functions / redundancyYesproduct functions / securityYesproduct functions / securityYesproduct functions / securityYesproduct functions / securityYesproduct functions / securityYesintrolicions / securityYes• ACL -MAC-basedYes• RSTPYes• STPRASEYes• NATINAPTYes• WPAWPA2Yes• SIMEYes• TRIPARESYes• TRIPARESYes• SIMEYes• SIMEYes <td></td> <td>Yes</td>		Yes
• connection monitoring IP-Alive No • localization via Acroscout Yes • Stylegd Yes protocot / is supported Yes • SNMP v1 Yes • SNMP v3 Yes product functions / VLAN Yes • function / VLAN with IWLAN Yes • function VLAN with IWLAN Yes • product functions / DHCP Product functions / DHCP • DHCP Server Yes • DHCP Option 82 Yes product functions / or foundancy Yes product functions / supported Yes • DHCP Option 82 Yes product functions / supported Yes • STP/RSTP Yes • STPRSTP Yes • RSTP Yes product functions / supported Yes • ACL - MAC-based Yes • NTARYPA2 Yes • Protocol / is supported Yes • NTARYPA2 Yes • NTP Yes • TMP/AES Yes • protocol / is	-	
 localization via Aeroscout Systog Yes Protocol /is supported SNMP v1 Yes SNMP v2 Yes SNMP v3 Yes Product functions / VLAN product functions / VLAN Yes product functions / DHCP product functions / DHCP DHCP Cleint Yes DHCP Diato DHCP Option 82 Yes Product functions / redundancy Product functions / redundancy Product functions / redundancy Product functions / supported STP/RSTP Yes MSTP Yes Product function Standards SSH Yes Yes Product function / ACL - NAC-based Yes NATINAPT Yes NATINAPT Yes NATINAPT Yes Yes Protocol / is supported SSH Yes Yes NATINAPT Yes Yes NATINAPT Yes Yes Yes NATINAPT Yes Yes Yes NTP Yes Yes<		
• SysLog Yes protocol / is supported • SMMP v1 Yes • SMMP v2 Yes • SMMP v3 Yes product functions / VLAN Yes • SMMP v3 Yes product functions / VLAN Yes • SMMP v3 Yes product functions / VLAN with IWLAN Yes • SMMP v3 Yes product functions / DFOP • DHCP client Yes • SMMP v3 Yes • DHCP Server Yes • SMMP v3 Yes • SMMP v3 Yes • DHCP Option 82 Yes Yes • SMP Yes • SMP Yes • STP/RSTP Yes Yes		
protocol / is supported Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes product functions / VLAN Yes product function * • function VLAN with IWLAN Yes product functions/DHCP * product functions * • DHCP client Yes • DHCP option 82 Yes product functions / redundancy * product functions / redundancy * product functions / security Yes product function * • STPRSTP Yes • RSTP Yes • management security, ACL-IP based Yes • IEEE 802.1x (radius) Yes • NAT/NAPT Yes • RADUS Yes Protocl / is supported Yes • SSH Yes • STP Yes • SSH Yes • TKIP/AES Yes Protocl / is supported Yes • NTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes		
• SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes product functions /VLAN product function • • function VLAN with IWLAN Yes product functions / DHOP product functions / DHOP product functions / DHOP Yes product functions / DHOP Option 82 Yes product functions / redundancy Yes protocol / is supported • STP/RSTP Yes • MSTP Yes product functions / Second • RSTP Yes product function • ACL - MAC-based Yes • MAT/NAPT Yes • NAT/NAPT Yes • NAT/NAPT Yes • NAT/NAPT Yes • TKiP/AES Yes protocol / is supported Yes • SNIP Yes • SNIP Yes • SNIP Yes • SMATIC time synchronization (SIMATIC Time) Yes • SIMATIC time synchronization (SIMATIC Time) Yes • SIMATIC time synchronization (SIMATIC Time) Yes • SIMATIC time synchronization (SIMATIC Time) Yes • for safety / from CS		
SNMP v2 SNMP v3 Yes SNMP v3 Yes Yes Product functions / VLAN product functions / DHCP product functions / Perform DHCP client Yes DHCP option 82 Yes Product functions / redundancy product functions / security product functions / security product function ACL - MAC-based Yes iteEE 802.1x (radius) Yes iteEEE 802.1x (radius) Yes iteEE 802.1x (radius) Yes rotocording to IEEE802.11i Yes Yes Yes rotocording to IEEE802.11i Yes Y		Voc
SNMP v3 Yes product functions / VLAN product functions / DHCP protocol / is supported STP/RSTP Yes Yes product functions / security protocol / is supported SKH Yes protocol / is supported Yes protocol / is supported Yes protocol / is supported SKH Yes protocol / is supported Yes protoco		
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product function • function VLAN with IWLAN Yes product function • product functions / DHCP product function • DHCP client · Yes · DHCP client · Yes Product functions / redundancy product functions / security Product functions / security Product functions / security product function ACL - MAC-based Yes NESTP Yes Product function ACL - MAC-based Yes NEG 20.1x (radius) Yes NAT/NAPT Yes NAT/NAPT Yes NAT/NAPT Yes Yes TKIP/AES Yes TKIP/AES Yes SH Yes SADUS Yes SIMATIC time synchronization (SIMATIC Time) Yes SIMATIC time synchronization (SIMATIC Time) Yes Standards for FM FM 3611: Class I, Division 2, Groups A, B, C, D, T4 / Class 1, Zone 2, Group IIC, T4 Yes AppliC, T4 Yes AppliC, T4 Yes Applications 2, Sonepos A, B, C, D, T4		Yes
	product functions / VLAN	
product functions / DHCP product function • DHCP client • DHCP Server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security e ACL - MAC-based Yes • Intel Security, ACL-IP based Yes • Intel Security, ACL-IP based Yes • NATTNAPT Yes • NATNAPT Yes • NAWAPA2 Yes • TKIP/AES Yes protocol / is supported Yes • SSH Yes • SNTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standard	product function	
product function Yes • DHCP client Yes • DHCP Option 82 Yes product functions / redundancy Protocol / is supported • STP/RSTP Yes • MSTP Yes • RSTP Yes product functions / security Yes product function Yes • MSTP Yes • MCL - MAC-based Yes • CAL - MAC-based Yes • Cacess protection according to IEEE802.11i Yes • Cacess protection according to IEEE802.11i Yes • TKIP/AES Yes protocol / is supported Yes • SSH Yes • NTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standard Similaritic Class 1, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IC, T4 • for safety /	 function VLAN with IWLAN 	Yes
DHCP client Yes DHCP Option 82 Yes DHCP Option 82 Yes product functions / redundancy protocol / is supported STP/RSTP Yes NMSTP Yes NMSTP Yes Yes Product function ACL - MAC-based Yes Yes National Security Product function ACL - MAC-based Yes Yes NAT/NAPT Yes Standard NTP Yes SIMATIC time synchronization (SIMATIC Time) Yes SIMATIC time synchronization (SIMATIC Time) Yes Standard for FM for SA and UL UL 60950-1, CSA C22.2 No. 60950-1	product functions / DHCP	
• DHCP server Yes • DHCP Option 82 Yes product functions / redundancy ************************************	product function	
DHCP Option 82 Yes product functions / redundancy protocol / is supported STP/RSTP Yes MSTP Yes RSTP Yes product functions / security product function ACL - MAC-based Yes management security, ACL-IP based Yes NAT/NAPT Yes ACL - MAC-based Yes NAT/NAPT Yes Access protection according to IEEE802.11i Yes Ves TKIP/AES Yes protocol / is supported Yes protocol / is supported Yes protocol / is supported Yes SSH Yes Yes protocol / is supported Yes protocol / is supported Yes SIMATIC time synchronization (SIMATIC Time) Yes standard for FM FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IC, T4 UL 60950-1, CSA C22.2 No. 60950-1	DHCP client	Yes
DHCP Option 82 Yes product functions / redundancy protocol / is supported STP/RSTP Yes MSTP Yes RSTP Yes product functions / security product function ACL - MAC-based Yes management security, ACL-IP based Yes NAT/NAPT Yes ACL - MAC-based Yes NAT/NAPT Yes Access protection according to IEEE802.11i Yes Ves TKIP/AES Yes protocol / is supported Yes protocol / is supported Yes protocol / is supported Yes SSH Yes Yes protocol / is supported Yes protocol / is supported Yes SIMATIC time synchronization (SIMATIC Time) Yes standard for FM FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IC, T4 UL 60950-1, CSA C22.2 No. 60950-1	DHCP server	Yes
product functions / redundancy protocol / is supported • 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 • IEEE 802.1x (radius) Yes • NAT/NAPT Yes • access protection according to IEEE802.11i Yes • NAT/NAPT Yes • access protection according to IEEE802.11i Yes • NPAWPA2 Yes • TKIP/AES Yes protocol / is supported - • SSH Yes protocol / is supported - • NTP Yes • SINTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standards, specifications, approvals - standard - • for Safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1		
protocol / is supported Yes • STP/RSTP Yes • MSTP Yes • RSTP Yes product functions / security Yes product function • ACL - MAC-based • ACL - MAC-based Yes • management security, ACL-IP based Yes • NAT/NAPT Yes • NAT/NAPT Yes • NAT/NAPT Yes • access protection according to IEEE802.11i Yes • TKIP/AES Yes protocol / is supported Yes • SSH Yes • RADIUS Yes protocol / is supported Yes • SSH Yes • SNTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standard • for Selety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1		
• STP/RSTPYes• MSTPYes• RSTPYesproduct functions / securityproduct function• ACL - MAC-basedYes• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTYes• access protection according to IEEE802.11iYes• WPAWPA2Yes• TKIP/AESYesprotocol / is supportedYes• RADIUSYes• NTPYes• SSHYessupportedYes• SNTPYes• SIMATIC time synchronization (SIMATIC Time)YesstandardFM 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		
 MSTP RSTP Yes Product functions / security product function ACL - MAC-based Yes management security, ACL-IP based Yes IEEE 802.1x (radius) Yes NAT/NAPT Yes access protection according to IEEE802.11i Yes TKIP/AES Yes TKIP/AES Yes RADIUS Yes Product functions / time protocol / is supported SSH Yes RADIUS Yes SIMATIC time synchronization (SIMATIC Time) Yes Standard for FM for Safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1 		Ver
• RSTP Yes product functions / security product function Yes • ACL - MAC-based Yes • management security, ACL-IP based Yes • IEEE 802.1x (radius) Yes • NAT/NAPT Yes • access protection according to IEEE802.11i Yes • WPA/WPA2 Yes • TKIP/AES Yes protocol / is supported Yes • SSH Yes • RADIUS Yes protocol / is supported Yes • SNTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standard FM 3611: Class 1, 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		
product functions / security product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • IEEE 802.1x (radius) • NAT/NAPT • NAT/NAPT • excess protection according to IEEE802.11i • WPA/WPA2 • WPA/WPA2 • TKIP/AES • protocol / is supported • SSH • RADIUS protocol / is supported • SNTP • SIMATIC time synchronization (SIMATIC Time) ves • SIMATIC time synchronization (SIMATIC Time) ves standard • for FM ves for asfety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1		
product function ACL - MAC-based Yes • Management security, ACL-IP based Yes • IEEE 802.1x (radius) Yes • NAT/NAPT Yes • access protection according to IEEE802.11i Yes • WPA/WPA2 Yes • TKIP/AES Yes protocol / is supported Yes • SSH Yes • RADIUS Yes protocol / is supported Yes • SSH Yes • RADIUS Yes protocol / is supported 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 safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1		Yes
 ACL - MAC-based Yes management security, ACL-IP based Yes IEEE 802.1x (radius) Yes NAT/NAPT Yes access protection according to IEEE802.11i Yes WPA/WPA2 Yes TKIP/AES Yes TKIP/AES Yes Protocol / is supported SSH Yes Yes Product functions / time Yes SNTP 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 60950-1, CSA C22.2 No. 60950-1 		
• management security, ACL-IP based Yes • IEEE 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 • RADIUS Yes protocol / is supported Yes • SSH Yes • RADIUS Yes protocol / is supported Yes • SNTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standard for FM • for Safety / from CSA and UL FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4		
• IEEE 802.1x (radius) Yes • NAT/NAPT Yes • access protection according to IEEE802.11i Yes • WPA/WPA2 Yes • TKIP/AES Yes protocol / is supported Yes • SSH Yes • RADIUS Yes product functions / time Yes protocol / is supported Yes • NTP 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 safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1		
 NAT/NAPT Yes access protection according to IEEE802.11i WPA/WPA2 WPA/WPA2 Yes TKIP/AES Yes protocol / is supported SSH Yes Product functions / time protocol / is supported NTP SNTP SIMATIC time synchronization (SIMATIC Time) Yes standard for FM for FM FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 	 management security, ACL-IP based 	Yes
 access protection according to IEEE802.11i WPA/WPA2 WPA/WPA2 TKIP/AES Yes protocol / is supported SSH Yes RADIUS Yes product functions / time protocol / is supported NTP SNTP SIMATIC time synchronization (SIMATIC Time) Standards, specifications, approvals standard for FM for FM for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1 	 IEEE 802.1x (radius) 	Yes
• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYesproduct functions / timeYesprotocol / is supportedYes• NTPYes• SNTPYes• SIMATIC time synchronization (SIMATIC Time)Yesstandards, specifications, approvalsYesstandardFM 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	NAT/NAPT	Yes
• TKIP/AES Yes protocol / is supported Yes • SSH Yes • RADIUS Yes product functions / time Yes protocol / is supported Yes • NTP Yes • SNTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standards, specifications, approvals Yes standard • for FM • for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	 access protection according to IEEE802.11i 	Yes
protocol / is supported • SSH Yes • RADIUS Yes product functions / time protocol / is supported • NTP Yes • SNTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standards, specifications, approvals 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	• WPA/WPA2	Yes
• SSH Yes • RADIUS Yes product functions / time	• TKIP/AES	Yes
• SSH Yes • RADIUS Yes product functions / time	protocol / is supported	
• RADIUS Yes product functions / time protocol / is supported • NTP Yes • SNTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standards, specifications, approvals 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		Yes
product functions / time protocol / is supported • NTP • SNTP • SIMATIC time synchronization (SIMATIC Time) Yes • SIMATIC time synchronization (SIMATIC Time) Yes standards, specifications, approvals standard • for FM • for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1		
protocol / is supported • NTP Yes • SNTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standards, specifications, approvals Yes 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		
• NTP Yes • SNTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standards, specifications, approvals Yes standard • for FM • for safety / from CSA and UL FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4		
• SNTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standards, specifications, approvals 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		Voc
SIMATIC time synchronization (SIMATIC Time) Yes standards, specifications, approvals standard o for FM for Safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1		
standards, specifications, approvals standard • for FM • for safety / from CSA and UL FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1		
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		
for FM FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1	standards, specifications, approvals	
Group IIC, T4 for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	standard	
certificate of suitability		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 	Yes
 railway application in accordance with EN 50121-4 	Yes
 fire protection in accordance with EN 45545-2 	Yes
NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
NEMA4X	No
 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	You will find the current list of countries at: www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classificatio	-
Marine classification association	Ver
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
standards, specifications, approvals / hazardous environn	nents
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links	
Internet-Link	
 to website: TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
 to web page: selection aid 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: Industry Mail to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
to website: Image database	http://automation.siemens.com/bilddb
 to website: Mage database to website: CAx-Download-Manager 	http://www.siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
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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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