## 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  |                                      |
| <ul> <li>with WLAN / maximum</li> </ul>  | 300 Mbit/s                           |
| <ul> <li>for Industrial Ethernet</li> </ul>  | 10, 100 Mbit/s                       |
| transfer rate / for Industrial Ethernet  |                                      |
| • minimum  | 10 Mbit/s                            |
| • maximum  | 100 Mbit/s                           |
| interfaces   |                                      |
| number of electrical connections   |                                      |
| <ul> <li>for network components or terminal equipment</li> </ul>                                     | 2                                    |
| <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>                                     | 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   |                                      |
| <ul> <li>from Power-over-Ethernet according to IEEE802.3at<br/>for type 1 and IEEE802.3af</li> </ul> | 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   |
| <ul> <li>with Power-over-Ethernet according to IEEE802.3at<br/>for type 1 and IEEE802.3af / typical</li> </ul>   | 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  |   |
| <ul> <li>operating frequency</li> <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 2.4 GHz frequency band</li> <li>for WLAN in 5 GHz frequency band</li> </ul>   | 4.9 5.8 GHz; depending on the country approvals   |
| <ul> <li>For WLAN in 5 GH2 requercy band</li> <li>product features, product functions, product components</li> </ul>   |   |
| 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-<br>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   |
| <ul> <li>web-based management</li> </ul>   |   |
|  | Yes   |
| <ul> <li>MIB support</li> </ul>  | Yes<br>Yes  |
| MIB support     TRAPs via email  |   |
|  | Yes   |
| • TRAPs via email  | Yes<br>Yes  |
| <ul> <li>TRAPs via email</li> <li>configuration with STEP 7</li> </ul>   | Yes<br>Yes<br>Yes   |
| <ul> <li>TRAPs via email</li> <li>configuration with STEP 7</li> <li>configuration with STEP 7 in the TIA Portal</li> </ul>  | Yes<br>Yes<br>Yes   |
| <ul> <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<br>Yes<br>Yes<br>No   |
| <ul> <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<br>Yes<br>Yes<br>No<br>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/                                |
| <ul> <li>Fined</li> <li>Vas</li> <li>HTTPS</li> <li>Vas</li> <li>HTTPS</li> <li>Vas</li> <li>FTP</li> <li>Vas</li> <li>CCP</li> <li>CCP</li> <li>Vas</li> <li>CCP</li> <li>CCP</li> <li>CCP</li> <li>Vas</li> <li>CCP</li> <li>CCP&lt;</li></ul>   |  |                                   |
| • 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><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       • 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   | <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         • 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  | -  |                                   |
| <ul> <li>localization via Aeroscout</li> <li>Systog</li> <li>Yes</li> <li>Protocol /is supported</li> <li>SNMP v1</li> <li>Yes</li> <li>SNMP v2</li> <li>Yes</li> <li>SNMP v3</li> <li>Yes</li> <li>Product functions / VLAN</li> <li>product functions / VLAN</li> <li>Yes</li> <li>product functions / DHCP</li> <li>product functions / DHCP</li> <li>DHCP Cleint</li> <li>Yes</li> <li>DHCP Diato</li> <li>DHCP Option 82</li> <li>Yes</li> <li>Product functions / redundancy</li> <li>Product functions / redundancy</li> <li>Product functions / redundancy</li> <li>Product functions / supported</li> <li>STP/RSTP</li> <li>Yes</li> <li>MSTP</li> <li>Yes</li> <li>Product function</li> <li>Standards</li> <li>SSH</li> <li>Yes</li> <li>Yes</li> <li>Product function / ACL - NAC-based</li> <li>Yes</li> <li>NATINAPT</li> <li>Yes</li> <li>NATINAPT</li> <li>Yes</li> <li>NATINAPT</li> <li>Yes</li> <li>Yes</li> <li>Protocol / is supported</li> <li>SSH</li> <li>Yes</li> <li>Yes</li> <li>NATINAPT</li> <li>Yes</li> <li>Yes</li> <li>NATINAPT</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>NATINAPT</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>NTP</li> <li>Yes</li> <li>Yes&lt;</li></ul>   |  |                                   |
| • 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     |  |                                   |
| product functions / VLAN         Yes           product functions / DHCP         Product functions / DHCP           product functions / DHCP client         Yes           DHCP Server         Yes           DHCP Option 82         Yes           protoct functions / redundancy         Yes           protoct functions / security         Yes           product function            • ACL - MAC-based         Yes           • IEEE 802.1 x (radius)         Yes           • IEEE 802.1 x (radius)         Yes           • NAT/NAPT         Yes           • access protection according to IEEE802.111         Yes           • TKIP/AES         Yes           protoct functions / supported         Yes           • SSH         Yes           • SUMATIC time synchronization (SIMATIC Time)         Yes           protoct functions / sime         Yes           • SIMATIC time synchronization (SIMATIC Time)         Yes           standard         FM 3611: Class 1, Division 2, Groups A,B,C,D, T4 / Class 1, Zon 2, Group ILC, T4           • for SEM         FM 3611: Class 1   |  |                                   |
| product function              • function VLAN with IWLAN         Yes           product function              • product functions / DHCP              product function <ul>             • DHCP client             · Yes             · DHCP client             · Yes </ul> <ul> <li>Product functions / redundancy</li> <li>product functions / security</li> <li>Product functions / security</li> <li>Product functions / security</li> <li>product function</li> <li>ACL - MAC-based</li> <li>Yes</li> <li>NESTP</li> <li>Yes</li> <li>Product function</li> <li>ACL - MAC-based</li> <li>Yes</li> <li>NEG 20.1x (radius)</li> <li>Yes</li> <li>NAT/NAPT</li> <li>Yes</li> <li>NAT/NAPT</li> <li>Yes</li> <li>NAT/NAPT</li> <li>Yes</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>SH</li> <li>Yes</li> <li>SADUS</li> <li>Yes</li> <li>SIMATIC time synchronization (SIMATIC Time)</li> <li>Yes</li> <li>SIMATIC time synchronization (SIMATIC Time)</li> <li>Yes</li> <li>Standards</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>Yes AppliC, T4</li> <li>Yes AppliC, T4</li> <li>Yes Applications 2, Sonepos A, B, C, D, T4</li></ul>   |  | 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 /   | <ul> <li>function VLAN with IWLAN</li> </ul>                                 | 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   |  |                                   |
| <ul> <li>MSTP</li> <li>RSTP</li> <li>Yes</li> <li>Product functions / security</li> <li>product function</li> <li>ACL - MAC-based</li> <li>Yes</li> <li>management security, ACL-IP based</li> <li>Yes</li> <li>IEEE 802.1x (radius)</li> <li>Yes</li> <li>NAT/NAPT</li> <li>Yes</li> <li>access protection according to IEEE802.11i</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>RADIUS</li> <li>Yes</li> <li>Product functions / time</li> <li>protocol / is supported</li> <li>SSH</li> <li>Yes</li> <li>RADIUS</li> <li>Yes</li> <li>SIMATIC time synchronization (SIMATIC Time)</li> <li>Yes</li> <li>Standard</li> <li>for FM</li> <li>for Safety / from CSA and UL</li> <li>UL 60950-1, CSA C22.2 No. 60950-1</li> </ul>  |  | 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                               |
| <ul> <li>ACL - MAC-based</li> <li>Yes</li> <li>management security, ACL-IP based</li> <li>Yes</li> <li>IEEE 802.1x (radius)</li> <li>Yes</li> <li>NAT/NAPT</li> <li>Yes</li> <li>access protection according to IEEE802.11i</li> <li>Yes</li> <li>WPA/WPA2</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>Protocol / is supported</li> <li>SSH</li> <li>Yes</li> <li>Yes</li> <li>Product functions / time</li> <li>Yes</li> <li>SNTP</li> <li>SIMATIC time synchronization (SIMATIC Time)</li> <li>Yes</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>UL 60950-1, CSA C22.2 No. 60950-1</li> </ul>   |  |                                   |
| • 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  |  |                                   |
| <ul> <li>NAT/NAPT</li> <li>Yes</li> <li>access protection according to IEEE802.11i</li> <li>WPA/WPA2</li> <li>WPA/WPA2</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>protocol / is supported</li> <li>SSH</li> <li>Yes</li> <li>Product functions / time</li> <li>protocol / is supported</li> <li>NTP</li> <li>SNTP</li> <li>SIMATIC time synchronization (SIMATIC Time)</li> <li>Yes</li> <li>standard</li> <li>for FM</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>UL 60950-1, CSA C22.2 No. 60950-1</li> </ul>  | <ul> <li>management security, ACL-IP based</li> </ul>                        | Yes                               |
| <ul> <li>access protection according to IEEE802.11i</li> <li>WPA/WPA2</li> <li>WPA/WPA2</li> <li>TKIP/AES</li> <li>Yes</li> <li>protocol / is supported</li> <li>SSH</li> <li>Yes</li> <li>RADIUS</li> <li>Yes</li> <li>product functions / time</li> <li>protocol / is supported</li> <li>NTP</li> <li>SNTP</li> <li>SIMATIC time synchronization (SIMATIC Time)</li> <li>Standards, specifications, approvals</li> <li>standard</li> <li>for FM</li> <li>for FM</li> <li>for safety / from CSA and UL</li> <li>UL 60950-1, CSA C22.2 No. 60950-1</li> </ul>   | <ul> <li>IEEE 802.1x (radius)</li> </ul>                                     | 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   | <ul> <li>access protection according to IEEE802.11i</li> </ul>               | 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,<br>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   |                                   |

| <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>                                | Yes   |
| <ul> <li>railway application in accordance with EN 50121-4</li> </ul>                              | Yes   |
| <ul> <li>fire protection in accordance with EN 45545-2</li> </ul>                                  | Yes   |
| NEMA TS2   | No  |
| • IEC 61375  | No  |
| • IEC 61850-3  | No  |
| NEMA4X   | No  |
| <ul> <li>Power-over-Ethernet according IEEE802.3at for<br/>type 1 and IEEE802.3af</li> </ul>       | Yes   |
| <ul> <li>Power-over-Ethernet according to IEEE802.3at for<br/>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  | You will find the current list of countries at:<br>www.siemens.de/funkzulassungen   |
| standards, specifications, approvals / marine classificatio  | -   |
|  |   |
| Marine classification association  | Ver   |
| American Bureau of Shipping Europe Ltd. (ABS)  | Yes   |
| <ul> <li>French marine classification society (BV)</li> </ul>                                      | Yes   |
| • DNV GL   | Yes   |
| <ul> <li>Korean Register of Shipping (KRS)</li> </ul>  | Yes   |
| <ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>  | Yes   |
| <ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>   | Yes   |
| <ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>   | Yes   |
| <ul> <li>Royal Institution of Naval Architects (RINA)</li> </ul>                                   | 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<br>ATEX 0145X   |
| certificate of suitability / CCC / for hazardous zone<br>according to GB standard                  | Yes   |
| 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  |
| • to website: Industry Mall  | https://mall.industry.siemens.com   |
| <ul> <li>to website: Industry Mail</li> <li>to website: Information and Download Center</li> </ul> | http://www.siemens.com/industry/infocenter  |
| to website: Image database   | http://automation.siemens.com/bilddb  |
| <ul> <li>to website: Mage database</li> <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<br>functions that support the secure operation of plants, solutions,<br>machines, equipment and/or networks. They are important components<br>in a holistic industrial security concept. With this in mind, Siemens'<br>products and solutions undergo continuous development. Siemens<br>recommends strongly that you regularly check for product updates. For<br>the secure operation of Siemens products and solutions, it is necessary<br>to take suitable preventive action(e.g. cell protection concept) and<br>integrate each component into a holistic, state-of-the-art industrial<br>security concept. Third-party products that may be in use should also be<br>considered. For more information about industrial security, visit<br>http://www.siemens.com/industrialsecurity. To stay informed about<br>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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