## SIEMENS

## Data sheet

## 6GK5761-1FC00-0AB0

product type designation



## W761-1 RJ45 (USA)

IWLAN Access Point, SCALANCE W761-1 RJ45, 1 radio, 1 R-SMA antenna port, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross data rate 150 Mbit/s, 1x RJ45 max. 100 Mbit/s, 24 V DC, terminal block, IP20, 0... +55°C, WPA2/802.11i/e, observe national approvals! CERT ID: ELN-W1-RJ-E1, scope of delivery: Manuals on CD-ROM German/English, 1x terminal block; only for operation in USA

transfer rate	
transfer rate	
<ul> <li>with WLAN / maximum</li> </ul>	150 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>	1
<ul> <li>for power supply</li> </ul>	1
<ul> <li>for redundant voltage supply</li> </ul>	0
type of electrical connection	
<ul> <li>for network components or terminal equipment</li> </ul>	RJ45 socket
<ul> <li>for power supply</li> </ul>	3-pole screw terminal
design of the removable storage	
• C-PLUG	No
• KEY-PLUG	No
memory	
design of the removable storage	
• C-PLUG	No
• KEY-PLUG	No
interfaces / wireless	
number of radio cards / permanently installed	1
number of electrical connections / for external antenna(s)	1
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
consumed current	
• at DC / at 24 V / typical	0.15 A
power loss [W]	
<ul> <li>at DC / at 24 V / typical</li> </ul>	3.6 W
supply voltage / 1	
from terminal block	19.2 V
supply voltage / 2	
<ul> <li>from terminal block</li> </ul>	28.8 V

ambient conditions	
ambient temperature	0 55 °C
during operation	
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W761-1 RJ45 or W72x-1 RJ45 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	IP20
design, dimensions and weights	
width	50 mm
height	114 mm
depth	74 mm
width / of the enclosure / without antenna	50 mm
height / of the enclosure / without antenna	114 mm
depth / of the enclosure / without antenna	74 mm
net weight	0.13 kg
fastening method	
S7-300 rail mounting	No
S7-1500 rail mounting	No
35 mm top hat DIN rail mounting	Yes
wall mounting	No
0	
radio frequencies	
operating frequency	
• for WLAN in 2.4 GHz frequency band	2.41 2.48 GHz; depending on the country approvals
<ul> <li>for WLAN in 5 GHz frequency band</li> </ul>	4.9 5.8 GHz; depending on the country approvals
product features, product functions, product components	/ general
product function / Access Point Mode	Yes
product function / client Mode	Yes
number of SSIDs	1
product function	
iPCF Access Point	No
iPCF client	No
<ul> <li>iPCF-MC Access Point</li> </ul>	No
iPCF-MC client	No
product function / iREF	No
product function / iPRP	No
product functions / management, configuration, engineeri	ng
number of manageable IP addresses / in client	4
product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
MIB support	Yes
TRAPs via email	Yes
configuration with STEP 7	Yes
<ul> <li>configuration with STEP 7 in the TIA Portal</li> </ul>	Yes
operation with IWLAN controller	No
<ul> <li>operation with Enterasys WLAN controller</li> </ul>	No
<ul> <li>forced roaming on IP down with IWLAN</li> </ul>	Yes
<ul> <li>forced roaming on link down with IWLAN</li> </ul>	Yes
• WDS	Yes
protocol / is supported	
Address Resolution Protocol (ARP)	Yes
ICMP	Yes
• Telnet	Yes
HTTP	Yes
• HTTPS	Yes

IF IP Yes     DCP Yes     ULDP Yes     ULDP Yes     ULDP Yes     Identification & Manitenance function     I&M0 - device-specific information     Ves     Identification & Manitenance function     I&M0 - device-specific information     Yes     Ves     Ves	- 1510	Vee
• LDP         Yes           Identification & maintenance function         Yes           • IBMM - device-specific information         Yes           product functions         Yes           product functions         No           • IBM check         No           • IBM check         No           • Connection monitoring IP-Alive         No           • Concision via Aeroscout         No           • Station via Aeroscout         No           • Solution via Aeroscout         No           • Concision via Aeroscout         No           • Solution via Aeroscout         No           • Solution via Aeroscout         No           • SIMP V1         Yes           • SIMP V3         Yes           product functions         YUAN           • SIMP V3         Yes           product functions         YUAN           • DHCP Option 82         Yes           product functions         Yes           product functions         Yes           product function         Yes           product function         Yes           • DHCP Option 82         Yes           product function         Yes           • STP/RSTP         Yes	• TFTP	Yes
Identification & maintenance function     Yes       • IBM - device specific information     Yes       • IBM - Indepretival designation/location designation     Yes       product functions / dagnostics     PROFINET ID diagnostics       product functions monitoring IP-Alive     No       • localization via Acrossout     No       • localization via Acrossout     No       • localization via Acrossout     No       • SNMP V1     Yes       • SNMP V2     Yes       • SNMP V3     Yes       product functions / VLAN     Yes       product functions / NCAN     Yes       • DHCP Option 82     Yes       product functions / redundancy     Yes       product functions / supported     Yes       • STP/RSTP     Yes       • NaTINAPT     No       • ACL - MAC-based     Yes       • IEEE 802.1x (radius)     Yes       • IEEE 802.1x (radius)     Yes       • IEEE 802.1x (radius)     Yes       • NaTINAPT     No       • access protection according to IEEE802.111     Yes       • RADIUS     Yes		
• I8M0 - device-specific information     Yes       • IRAM1 - higher level designation/cation designation     Yes       Product functions / diagnosis     No       • PROF/INET IO diagnosis     No       • link check     No       • connection monitoring IP-Alive     No       • simport of the supported     Yes       • simport of the supported     Yes       • SIMIP v1     Yes       • simport functions / VLAN     Yes       product functions / UAN     Yes       • DHCP client     Yes		
• KM1 - higher level designation/location designation     Yes       product functions / diagnostics     No       • PROFINET IO diagnostics     No       • ink check     No       • connection monitoring IP-Alive     No       • localization via Aeroscout     No       • systog     Yes       protoce/ //s supported     Yes       • SNMP v1     Yes       • SNMP v2     Yes       • SNMP v3     Yes       product functions / VLAN     Yes       product functions / VLAN     Yes       product functions / ULAN     Yes       product functions / VLAN     Yes       product functions / DHOP     Indications / Product functions / DHOP       product functions / DHOP     Yes       product functions / Indication     Yes       • DHCP Option 82     Yes       product functions / redundancy     Yes       product functions / security     Yes       product functions / security     Yes       • STPR     Yes       • NSTP     Yes       • NAT/NAPT     No       • CAC - MAC-based     Yes       • IEEE 802.1x (radius)     Yes       • NAT/NAPT     No       • Cocas protection according to IEEE802.111     Yes       • Cocas protection according to IEEE802.		Vec
product functions         /diagnostics           product function         No           • RROFINET to diagnosis         No           • connection monitoring IP-Alive         No           • localization via Aeroscout         No           • status         No           • solution via Aeroscout         No           • solution via Aroscout         Yes           product functions / VLAN         Yes           product functions / DHOP         Yes           product functions / PACUNARY         Yes           product functions / redundancy         Yes           product functions / socurity         Yes           product function         Yes           • ART_NAPT         No           • ACL - MAC-based         Yes           • eacess protection according to EEE802.11i         Yes           • NIP / Yes         Yes           protocol	•	
product function         No           • link check         No           • onnection molitoring IP-Alive         No           • contraction via Aeroscout         No           • contraction via Aeroscout         No           • contraction via Aeroscout         No           • sysLog         Yes           protocol / is supported         SNMP v1           • SIMMP v2         Yes           • SIMMP v3         Yes           product functions / VLAN         Yes           product function         Ves           • Onchor VLAN with WUAN         Yes           product functions / DHOP         Product functions / DHOP           product functions / DHOP         Yes           product functions / DHOP         Yes           product functions / DHOP         Yes           product functions / socurity         Yes           oradis functions / socurity         Yes           istandards         Yes           • No No         • eccess protecton according to EEE802.11i           • eccess protecton according to EEE802.11i         Yes <td></td> <td></td>		
• PROFINET ID diagnosis     No       • ink check     No       • connection monitoring IP-Alive     No       • boalization via Aeroscout     No       • SysLog     Yes       protocol / is supported     Yes       • SNMP v1     Yes       • SNMP v2     Yes       product functions / VLAN     Yes       product functions / VLAN     Yes       product functions / VLAN     Yes       product functions / NLAN     Yes       product functions     Yes       • DHCP server     Yes       • DHCP client     Yes       • DHCP server     Yes       • STP     Yes       product functions / security     Yes       product functions / security     Yes       product functions / security     Yes       product function security, ACL-IP based     Yes       • EEE 802.1k (radius)     Yes       • EEE 802.1k (radius)     Yes       • NAT/MAPT     Yes       • NAT/MAPT     Yes       protocol / is supported     Yes       • SNIP     Yes       • SNIP     Yes       • NPAWPA2		
• link check     No       • contraction monitoring IP-Alive     No       • cocalization via Aeroscout     No       • SysLog     Yes       protocol / is supported     *       • SNMP v1     Yes       • SNMP v3     Yes       product functions /VLAN     Yes       product functions /VLAN     Yes       product functions /VLAN     Yes       product functions /VLAN     Yes       product functions / DHCP     Product functions / DHCP       product functions / DHCP     Yes       product functions / redundancy     Yes       product functions / security     Yes       product function     Yes       • STP/RSTP     Yes       • CLC - MAC-based     Yes       • CLE 202 / 1x (radus)     Yes       • NAT/NAPT     No       • Cacess protection according to IEEE802.111     Yes       • SSTP     Yes       •	•	No
• connection monitoring IP-Alive     No       • cystog     Yes       protocol / is supported     Yes       • SNMP v2     Yes       • SNMP v3     Yes       product functions / VLAN     Yes       product functions / VLAN     Yes       product function     • Unction VLAN with IWLAN     Yes       product function     • Unction VLAN with IWLAN     Yes       product function     • Unction S / DHCP       product functions / DHCP     Yes       product functions / DHCP     Yes       protocol / is supported     Yes       • DHCP Server     Yes       • DHCP Option 82     Yes       product functions / supported     Yes       • STP/RSTP     Yes       • STP/RSTP     Yes       • NSTP     Yes       product function     • ACL-IP based       • CACL-MAC-based     Yes       • EEE 802.11/ (adius)     Yes       • EEE 802.11/ (adius)     Yes       • NATIMAPT     No       • SNP     Yes       • SNEP     Yes       protocol / is supported     Yes       • STP/RSTP     Yes       • STP     Yes       • STP     Yes       • STP     Yes       • NET     Yes <td></td> <td></td>		
• localization via Aeroscout     No       • SysLog     Yes       • SNMP v1     Yes       • SNMP v2     Yes       • SNMP v3     Yes       product functions / VLAN     Yes       product function vLAN vth IWLAN     Yes       • Order function     • Order function       • Order function vLAN vth IWLAN     Yes       product functions / DHCP     Product functions / DHCP       product functions / DHCP     Yes       • DHCP Option 82     Yes       • DHCP Option 82     Yes       • DHCP Option 82     Yes       • STP/RSTP     Yes       • STP/RSTP     Yes       • STPRSTP     Yes       • Maximum function     Yes       • MAT/NAPT     Yes       • CACL - MAC-based     Yes       • EEE 802.1x (radius)     Yes       • EEE 802.1x (radius)     Yes       • TRIPAES     Yes       • TRIPAES     Yes       • TRIPAES     Yes       • INTP     Yes       • SSH     Yes       • SSH     Yes       • TRIPAES     Yes       • TRIPAES     Yes       • SSH     Yes       • INTP     Yes       • SSH     Yes       • TRIP     Yes		
• SysLog         Yes           protocol/ is supported         Yes           • SNMP V1         Yes           • SNMP V2         Yes           • SNMP V3         Yes           product functions / VLAN         product functions / VLAN           product function         • function VLAN with IWLAN           product function         • function / LAN with IWLAN           product functions / DHCP         product functions / DHCP           product functions / Product functions / redundancy         Yes           product functions / redundancy         Yes           product function / source         Yes           • STPR         Yes           • STP         Yes           • STP         Yes           • STP         Yes           • STP         Yes           • MSTP         Yes           • Ch - MAC-based         Yes           • management security         Yes           • IEEE 802.1x (radius)         Yes           • NTRAPT         No           • access protection according to IEEE802.11i         Yes           • TKIP/AES         Yes           protocul / is supported         -           • SSH         Yes           Protoc		
protocol / is supported           • SNMP v1           • SNMP v2           • SNMP v3           product functions / VLAN           product function           • function VLAN with IWLAN           Yes           product function           • DHCP Glient           • DHCP Glient           • DHCP Option 82           product functions / rodundancy           protoct functions / rodundancy           protoct functions / rodundancy           protoct functions / supported           • SRTP           • SRTP           Yes           product functions / security           product function           • ACL - MAC-Based           Yes           • EEE B02.1x (radius)           • NATINAPT           No           • access protection according to IEEE802.111           • Wes           protoct / is supported           • SSH           • SNTP           • SNTP           • SNTP           • SNATIC time synchronization (SIMATIC T		
• SNMP v1     Yes       • SNMP v3     Yes       • SNMP v3     Yes       product functions / VLAN     Yes       product function     • function VLAN with WLAN       Yes     Yes       product functions / DHOP     Yes       product functions / DHOP     Yes       product functions / DHOP     Yes       product functions / redundancy     Yes       product functions / redundancy     Yes       product functions / redundancy     Yes       product functions / security     Yes       product functions / security     Yes       product function / security     Yes       product function / security     Yes       imanagement security, ACL-IP based     Yes       • NAT/NAPT     No       • access protection according to IEEE802.111     Yes       • WPAWPA2     Yes       • TKIPAES     Yes       • TKIPAES     Yes       • RADIUS     Yes       product functions / is supported     Yes       • SMTP     Yes       • SIM F     Yes       • SIMATIC time synchronization (SIMATIC Time)     Yes       • standards     sportscill cass I, Division 2, Groups A,B,C,D, T4 / Class I, Zone 2,		
SNMP v2     Yes     SNMP v3     Yes     Yes     Product functions / VLAN     product function     function VLAN with IWLAN     Yes     Product function     OHCP client     Yes     OHCP client     Yes     OHCP option 82     Yes     Product functions / redundancy     protocol / is supported     STP/RSTP     Yes     STP/RSTP     Yes     STP     Yes     RSTP     Yes     Product function     ACL - MAC-based     Yes     imanagement security, ACL-IP based     Yes     imanagement security, Yes     imate the tespection according to IEEE802.111     Yes     imate tespection according to IEEE802.111     Yes     imateset     imateset     imateset     imateset     imateset     imate		Yes
product functions / VLAN         Yes           product functions //LAN with IWLAN         Yes           product functions / DHCP         product functions / DHCP           product functions / DHCP client         Yes           DHCP product functions / DHCP of the server         Yes           DHCP option 82         Yes           product functions / redundancy         Yes           product functions / redundancy         Yes           product functions / redundancy         Yes           product functions / security         Yes           product functions / security         Yes           product function            • ACL - MAC-based         Yes           • IEEE 802.1x (radius)         Yes           • NATINAPT         No           • access protection according to IEEE802.11i         Yes           • WPA/WPA2         Yes           • TKP/AES         Yes           product functions / supported         Yes           • SSH         Yes           • RADIUS         Yes           protocol / is supported         Yes           • SSH         Yes           • SSH         Yes           • SIMP         Yes           • SIMTP         Yes <td>• SNMP v2</td> <td>Yes</td>	• SNMP v2	Yes
product functions / VLAN         Yes           product functions //LAN with IWLAN         Yes           product functions / DHCP         product functions / DHCP           product functions / DHCP client         Yes           DHCP product functions / DHCP of the server         Yes           DHCP option 82         Yes           product functions / redundancy         Yes           product functions / redundancy         Yes           product functions / redundancy         Yes           product functions / security         Yes           product functions / security         Yes           product function            • ACL - MAC-based         Yes           • IEEE 802.1x (radius)         Yes           • NATINAPT         No           • access protection according to IEEE802.11i         Yes           • WPA/WPA2         Yes           • TKP/AES         Yes           product functions / supported         Yes           • SSH         Yes           • RADIUS         Yes           protocol / is supported         Yes           • SSH         Yes           • SSH         Yes           • SIMP         Yes           • SIMTP         Yes <td>• SNMP v3</td> <td></td>	• SNMP v3	
product function         Yes           product function VLAN with IWLAN         Yes           product functions / DHCP         product function           product function         0 DHCP client         Yes           • DHCP Option 82         Yes           product functions / redundancy         product functions / redundancy           product functions / redundancy         product functions / redundancy           product functions / security         Yes           e STP/RSTP         Yes           e RSTP         Yes           product function         • ACL - MAC-based           • Magement security, ACL-IP based         Yes           product function         • ACL - MAC-based           • RSTP         Yes           • IEEE 802.1x (radius)         Yes           • NAT/NAPT         No           • access protection according to IEEE802.11i         Yes           • WPAWPA2         Yes           • TKIP/AES         Yes           protocol / is supported         Yes           • SSH         Yes           • SNTP         Yes           • SIMTP         Yes           • SIMTP         Yes           • SIMTP         Yes           • SIMATIC time sync	product functions / VLAN	
<ul> <li>function VLAN with IWLAN</li> <li>Yes</li> <li>product functions / DHCP</li> <li>product function</li> <li>DHCP client</li> <li>Yes</li> <li>DHCP Option 82</li> <li>Yes</li> <li>protocol / is supported</li> <li>STP/RSTP</li> <li>RSTP</li> <li>Yes</li> <li>MSTP</li> <li>Yes</li> <li>MSTP</li> <li>Yes</li> <li>Product functions / security</li> <li>product functions</li> <li>Yes</li> <li>MSTP</li> <li>Yes</li> <li>MSTP</li> <li>Yes</li> <li>MSTP</li> <li>Yes</li> <li>MSTP</li> <li>Yes</li> <li>Yes</li> <li>Product functions / security</li> <li>Product function</li> <li>ACL - MAC-based</li> <li>Yes</li> <li>Wes</li> <li>TKIP/APT</li> <li>WPAWPA2</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>SIMTP</li> <li>Yes</li> <li>SIMTC time synchronization (SIMATIC Time)</li> <li>Yes</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,</li> </ul>		
product function         Product functions           • 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            • RSTP         Yes           product function            • RSTP         Yes           product function            • ACL - MAC-based         Yes           • IEEE 802.1x (radius)         Yes           • IEEE 802.1x (radius)         Yes           • NAT/NAPT         No           • access protection according to IEEE802.11i         Yes           • WPA/WPA2         Yes           • TKIP/AES         Yes           • TKIP/AES         Yes           • Protocol / is supported            • SSH         Yes           • RADIUS         Yes           • SIMATIC time synchronization (SIMATIC Time)         Yes           • SIMATIC time synchronization (SIMATIC Time)         Yes           • standards         standar	•	Yes
product function         Product functions           • 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            • RSTP         Yes           product function            • RSTP         Yes           product function            • ACL - MAC-based         Yes           • IEEE 802.1x (radius)         Yes           • IEEE 802.1x (radius)         Yes           • NAT/NAPT         No           • access protection according to IEEE802.11i         Yes           • WPA/WPA2         Yes           • TKIP/AES         Yes           • TKIP/AES         Yes           • Protocol / is supported            • SSH         Yes           • RADIUS         Yes           • SIMATIC time synchronization (SIMATIC Time)         Yes           • SIMATIC time synchronization (SIMATIC Time)         Yes           • standards         standar	product functions / DHCP	
DHCP server Yes     DHCP Option 82     Yes      Product functions / redundancy      protocol / is supported         STP/RSTP     Yes         NSTP     Yes      Product function         ACL - MAC-based     Yes      product function         ACL - MAC-based     Yes          management security, ACL-IP based     Yes         NAT/NAPT     No         access protection according to IEEE802.111     Yes         Ves         TKIP/AES     Yes      protocol / is supported         SSH         Yes      protocol / is supported         SSH         Yes      protocol / is supported         NTP         Yes      protocol / is supported         NTP         Yes      protocol / is supported         SSH         SSH         Yes      protocol / is supported         SSH         SSH         SSH		
DHCP Option 82 Yes  product functions / redundancy  protocol / is supported     STP/RSTP     Yes     RSTP     Yes  product function     ACL - MAC-based     Yes  product function     ACL - MAC-based     Yes      EEE 802.1x (radius)     Yes     NAT/NAPT     No     access protection according to IEEE802.11i     Yes     TKIP/AES     Yes  protocol / is supported     SSH     Yes  protocol / is supported     NTP     Yes  protocol / is supported     NTP     Yes     SINTP     Yes     Yes     Yes     Yes     Yes	DHCP client	Yes
product functions / redundancy           protocol / is supported           • STP/RSTP           • MSTP           • RSTP           • RSTP           product functions / security           product function           • ACL - MAC-based           • management security, ACL-IP based           • IEEE 802.1x (radius)           • NAT/NAPT           • NAT/NAPT           • NAT/NAPT           • NAT/NAPT           • WPA/WPA2           • TKIP/AES           protocol / is supported           • SSH           • RADIUS           protocol / is supported           • SSH           • NTP           • SIMATIC time synchronization (SIMATIC Time)           Yes           • SIMATIC time synchronization (SIMATIC Time)           Yes           • for FM	DHCP server	Yes
protocol / is supported       Yes         • MSTP       Yes         • MSTP       Yes         • RSTP       Yes         product functions / security       Yes         product function       Yes         • ACL - MAC-based       Yes         • IEEE 802.1x (radius)       Yes         • NAT/NAPT       No         • access protection according to IEEE802.11i       Yes         • TKIP/AES       Yes         protocol / is supported       Yes         • SSH       Yes         protocol / is supported       Yes         • SSH       Yes         protocol / is supported       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,	DHCP Option 82	Yes
• STP/RSTPYes• MSTPYes• RSTPYesproduct functions / securityproduct function• ACL - MAC-basedYes• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYesprotocol / is supportedYes• SITPYes\$IMATIC time synchronization (SIMATIC Time)YesstandardFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,	product functions / redundancy	
<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>management security, ACL-IP based</li> <li>Yes</li> <li>NAT/NAPT</li> <li>No</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>Protocol / is supported</li> <li>SSH</li> <li>Yes</li> <li>RADIUS</li> <li>Yes</li> <li>SNTP</li> <li>SIMTP</li> <li>SIMTP</li> <li>SIMTP</li> <li>SIMATIC time synchronization (SIMATIC Time)</li> <li>Yes</li> <li>Standard, sperovals</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,</li> </ul>	protocol / is supported	
• RSTP       Yes         product functions / security         product function         • ACL - MAC-based       Yes         • management security, ACL-IP based       Yes         • IEEE 802.1x (radius)       Yes         • NAT/NAPT       No         • access protection according to IEEE802.11i       Yes         • WPA/WPA2       Yes         • TKIP/AES       Yes         protocol / is supported       Yes         • SSH       Yes         product functions / time       Yes         protocol / is supported       Yes         • SNTP       Yes         • SINATIC 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,	• STP/RSTP	Yes
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         • access protection according to IEEE802.11i         • WPA/WPA2         • TKIP/AES         protocol / is supported         • SSH         • RADIUS         protocol / is supported         • SSH         • RADIUS         yes         protocol / is supported         • SSH         · SSH         · SSH         · SSH         · SSH         · SNTP         · SNTP         · SIMATIC time synchronization (SIMATIC Time)         Yes         standard         · for FM	• MSTP	Yes
product function          • ACL - MAC-based       Yes         • management security, ACL-IP based       Yes         • IEEE 802.1x (radius)       Yes         • NAT/NAPT       No         • access protection according to IEEE802.11i       Yes         • WPA/WPA2       Yes         • TKIP/AES       Yes         protocol / is supported       Yes         • SSH       Yes         product functions / time       Yes         protocol / is supported       Yes         • SSH       Yes         protocol / is supported       Yes         • SSH       Yes         standards, specifications, approvals       Yes         standard       FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,	• RSTP	Yes
• ACL - MAC-basedYes• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYesprotocol / is supportedYes• SSHYes• STPYessonoredYessonoredYessonoredYessonoredYessonoredYessonoredYessonoredYessonoredYessonoredYessonoredYessonoredYessonoredYessonoredYessonoredYes• NTPYes• SIMATIC time synchronization (SIMATIC Time)YesstandardFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,	product functions / security	
• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYesprotocol / is supportedYes• STHYes• STHYes• STHYes• STHYes• STHYes• STHYes• SUPYes• SNTPYes• SIMATIC time synchronization (SIMATIC Time)Yesstandards, specifications, approvalsFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,	•	
<ul> <li>IEEE 802.1x (radius)</li> <li>NAT/NAPT</li> <li>No</li> <li>access protection according to IEEE802.11i</li> <li>WPAWPA2</li> <li>WPAWPA2</li> <li>Yes</li> <li>TKIP/AES</li> <li>Yes</li> <li>protocol / is supported</li> <li>SSH</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>Yes</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,</li> </ul>		
<ul> <li>NAT/NAPT</li> <li>No</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>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>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,</li> </ul>	- · ·	
<ul> <li>access protection according to IEEE802.11i</li> <li>WPA/WPA2</li> <li>WPA/WPA2</li> <li>TKIP/AES</li> <li>TKIP/AES</li> <li>Yes</li> <li>protocol / is supported</li> <li>SSH</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>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,</li> </ul>		
<ul> <li>WPA/WPA2</li> <li>TKIP/AES</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>Yes</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,</li> </ul>		
• 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       FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,		
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       FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,		
<ul> <li>SSH</li> <li>RADIUS</li> <li>Yes</li> <li>Product functions / time</li> <li>protocol / is supported</li> <li>NTP</li> <li>SNTP</li> <li>Yes</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,</li> </ul>		res
• 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       FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,		Vac
product functions / time         protocol / is supported         • NTP         • 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,		
protocol / is supported       Yes         • NTP       Yes         • SNTP       Yes         • SIMATIC time synchronization (SIMATIC Time)       Yes         standards, specifications, approvals       Yes         standard       • for FM         • for FM       FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,		
• 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,		
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SIMATIC time synchronization (SIMATIC Time) Yes      standards, specifications, approvals      standard     o for FM FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,		
standards, specifications, approvals         standard         • for FM         FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,		
standard         • for FM         FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,		
• for FM FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,		
• for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	<ul> <li>for safety / from CSA and UL</li> </ul>	
certificate of suitability		
EC Declaration of Conformity Yes	<ul> <li>EC Declaration of Conformity</li> </ul>	Yes
CE marking Yes	CE marking	Yes
• C-Tick Yes	• C-Tick	Yes
• E1 approval No	<ul> <li>E1 approval</li> </ul>	No
railway application in accordance with EN 50155     No		No
railway application in accordance with EN 50121-4     No	<ul> <li>railway application in accordance with EN 50121-4</li> </ul>	No

NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
NEMA4X	No
<ul> <li>Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	No
<ul> <li>Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	No
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	n
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
• French marine classification society (BV)	No
• DNV GL	No
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	No
Lloyds Register of Shipping (LRS)	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	No
<ul> <li>Royal Institution of Naval Architects (RINA)</li> </ul>	No
standards, specifications, approvals / hazardous environm	
standard / for hazardous zone	
standaru / 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
according to GB standard	Yes
according to GB standard accessories accessories	
according to GB standard accessories accessories further information / internet-Links	Yes
according to GB standard accessories accessories further information / internet-Links Internet-Link	Yes 24 V DC screw terminal included in scope of delivery
according to GB standard accessories accessories further information / internet-Links Internet-Link • to website: TIA Selection Tool	Yes 24 V DC screw terminal included in scope of delivery http://www.siemens.com/tia-selection-tool
according to GB standard accessories accessories further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool	Yes 24 V DC screw terminal included in scope of delivery http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool
according to GB standard accessories accessories further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN	Yes 24 V DC screw terminal included in scope of delivery http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan
according to GB standard accessories accessories further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall	Yes 24 V DC screw terminal included in scope of delivery http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com
according to GB standard accessories accessories further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall • to website: Information and Download Center	Yes 24 V DC screw terminal included in scope of delivery http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter
according to GB standard accessories accessories further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: INULAN • to website: Industry Mall • to website: Information and Download Center • to website: Image database	Yes 24 V DC screw terminal included in scope of delivery http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb
according to GB standard accessories accessories further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: INLAN • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager	Yes 24 V DC screw terminal included in scope of delivery http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax
according to GB standard accessories accessories further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support	Yes 24 V DC screw terminal included in scope of delivery http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb
according to GB standard accessories accessories further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: INULAN • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support security information	Yes 24 V DC screw terminal included in scope of delivery http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://www.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
according to GB standard accessories accessories further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support	Yes 24 V DC screw terminal included in scope of delivery http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax