SIEMENS

Data sheet

6GK5788-1GY01-0AA0



W1788-1 M12

IWLAN access point, SCALANCE W1788-1 M12, 1 radio, 4 N-CON antenna port, iFeatures support via CLP, IEEE 802.11a/b/g/h/n/ac, 2.4/5GHz, gross 1733 Mbit/s per radio, 2x M12 max. 1 Gbit/s, PoE, redundant 24 V DC,M12 A-coded IP65, -20..+70°C, CLP slot, WPA2/802.11i/e, observe national approvals! CERT ID: RAPAC-W1-M12-E4, includes: MPCIE-R1-ABGNAC-U4, scope of delivery: M12 sealing caps, for operation outside of USA/Israel

transfer rate	
transfer rate	
 with WLAN / maximum 	1733 Mbit/s
 for Industrial Ethernet 	10, 100, 1000 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	1000 Mbit/s
interfaces	
number of electrical/optical connections / for network components or terminal equipment / maximum / note	2
number of electrical/optical connections / for gigabit Ethernet / maximum	2
number of electrical connections	
 for network components or terminal equipment 	2
 for power supply 	1
 for redundant voltage supply 	1
type of electrical connection	
 for network components or terminal equipment 	M12 interface (8-pole, X-coded), PoE
• for power supply	M12 interface (4-pole, A-coded)
design of the removable storage	
• CLP	Yes
CLP iFeatures	Yes
memory	
design of the removable storage	
• CLP	Yes
CLP iFeatures	Yes
interfaces / wireless	
number of radio cards / permanently installed	1
transmission mode / for multiple input multiple output (MIMO)	4x4
number of spatial streams	4
number of electrical connections / for external antenna(s)	4
type of electrical connection / for external antenna(s)	N-Connect (socket)
product feature / external antenna can be mounted directly on device	Yes
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage	
 from Power-over-Ethernet according to IEEE802.3at for type 2 	48 V
consumed current	

 at DC / at 24 V / typical 	0.375 A
with Power-over-Ethernet according to IEEE802.3at for	0.21 A
type 2 / typical	
power loss [W]	
• at DC / at 24 V / typical	10.1 W
with Power-over-Ethernet according to IEEE802.3at for	9 W
type 2 / typical	
supply voltage / 1	
 from M12 Power Connector (A-coded) for redundant 	16.8 V
power supply	_
supply voltage / 2	
 from M12 Power Connector (A-coded) for redundant power supply 	31.2 V
ambient conditions	
ambient temperature	
 during operation 	-20 +70 °C
 during storage 	-40 +85 °C
 during transport 	-40 +85 °C
relative humidity / at 25 °C / without condensation / duringoperation / maximum	90 %
protection class IP	IP65
design, dimensions and weights	
width	258 mm
height	258 mm
depth	80 mm
width / of the enclosure / without antenna	258 mm
height / of the enclosure / without antenna	258 mm
depth / of the enclosure / without antenna	80 mm
net weight	2.7 kg
fastening method	Accessories are required for wall mounting and mounting on a mounting rail.
 S7-300 rail mounting 	Yes
 S7-1500 rail mounting 	Yes
 35 mm top hat DIN rail mounting 	Yes
wall mounting	Yes
wall mounting radio frequencies	Yes
radio frequencies	Yes
radio frequencies operating frequency	
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band	2.41 2.48 GHz; depending on the country approvals
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client • iPCF-MC client • iPCF-MC client	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No No No
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No
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radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / Client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client • iPCF-MC client product function / iREF product function / iPRP	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No No No
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client product function / iREF product function / iPRP product functions / management, configuration, engineering	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No No No
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client • iPCF-MC client product function / iREF product function / iPRP product function • CLI	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes 8 8 No No No No No No Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client product function / iREF product function / iPRP product function • CLI • web-based management	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client product function / iREF product function / iPRP product function • CLI • web-based management • MIB support	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No No No No Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client product function / iREF product function • CL1 • web-based management • MIB support • TRAPs via email	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No No No No No Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC Client product function / iREF product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No No No Yes Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client product function / iREF product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • configuration with STEP 7 in the TIA Portal	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No No No Yes Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client product function / iREF product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No No No Yes Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client product function / iREF product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • configuration with STEP 7 in the TIA Portal	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No No No Yes Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client product function / iREF product function • CL1 • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • configuration with STEP 7 in the TIA Portal • operation with IWLAN controller	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No No No Yes Yes Yes Yes Yes No No No Yes No
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / ge product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client • iPCF-MC client product function / iREF product function • CLI • web-based management, configuration, engineering product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • configuration with STEP 7 in the TIA Portal • operation with IWLAN controller • forced roaming with IWLAN	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals neral Yes Yes 8 No No No No No No Yes

probable functions / LAN with Visions / LAN w		
• CMPYes• TarbonYes• TATPYes• TATPYes• TATPYes• TATPYes• CMPYes• CMPYes<	protocol / is supported	
• Fland:Yes• HTTP:Yes• HTTP:Yes• LDPYes• LDPYes<	 Address Resolution Protocol (ARP) 	Yes
+ HTPYes• HTPYes• LCPYes• LCPYes• LLPYes• LLDPYes• LLDPYes• LLDPYes• LLDPYes• LLDPYes• LLDPYes• RLMI - hyper level designation/ocation designationYes• PROFUNETYes• PROFUNETYes• PROFUNETYes• PROFUNETYes• PROFUNETYes• PROFUNETYes• SNAP v3Yes• PROFUNETYes• SNAP v3Yes• PROFUNETYes• SNAP v3Yes• PROFUNETYes• PROFUNETYes	• ICMP	Yes
• ITTPSYes• ITTPYes• ILDPYes• ILDPYes• ILMDYes• ILMDYes• ILMDYesproduct functions / disponsitiosYesproduct functions / VLAN with IWLANYes• SNMP v2:Yes• SNMP v3:Yesproduct functions / VLAN with IWLANYes• Product functions / VLAN with IWLANYesproduct functions / VLAN with IWLANYes* OPACH functions /	Telnet	Yes
• FTPYes• LDPYesIdentification & maintenance functionYes• KMA - values especific informationYes• KMA - values especific informationYes• MAM - values especific informationYes• Profect functions / functionYes• Profect functions / functionYes• Profect functions / functionYes• Profect functions / VLANYes• SIMP V2Yes• SIMP V3Yes• Profect functions / VLANYes• Profect functions / VLANYe	• HTTP	Yes
• CCPYesiLIDPYesiMid- cecic specifi informationYes• MMI - Inpire two designation to the signationYesproduct functionYes• PROFINETI O diagnosisYesproduct functionYes• PROFINETI O diagnosisYesproduct functionYes• SNMP YaYes• SNMPYes• SNMP YaYes	• HTTPS	Yes
I-LIP Yes identification & maintonance function Yes i-RM0 - bedice specific information Yes information and function of esignation Yes product function - i-RPG/PHET1O diagnostis Yes product function - i-RPG/PHET1O diagnostis Yes product function - i-RPG/PHET1O diagnostis Yes product function - i-SNMP v2 Yes i-SNMP v3 Yes product functions / UAN Yes product functions / UAN Yes product functions / DHOP - product functions / Perform Yes product functions / Perform Yes product functions / Perform Yes i-DHCP Opion 22 Yes product functions / refurmations/ Yes i-STRP Yes i-Strip Yes i-Strip Yes i-Strip Yes i-Strip Yes i-Strip Y	• TFTP	Yes
Identification & mentersance function	• DCP	Yes
4840 - device specific informationYes1840 - device specific informationYesproduct function- RPGCPINET IC diagnosticYesprotect functionYes- SNMP V3Yes- SNMP V4Yes- SNMP V3Yes- SNMP V3Yes- SNMP V3Yes- SNMP V4Yes- SNMP V3Yes- SNMP V3Yes- SNMP V4Yes- SNMP V5Yes- SNMP V5Yes- SNMP V6Yes- SNMP V6Yes- SNMP V6Yes- SNMP V6YesProduct functionYes- SNMP V5YesProduct function / DH2PYesProduct function / StepprotsYes- STP/RSTPYes- STP/RSTPYesProduct function / IssurdtyYesProduct function / IssurdtyYesProduct function / IssurdtyYesProduct function / IssurdtyYesProduct function- STP/RSTPYes- STP/RSTPYes <td>• LLDP</td> <td>Yes</td>	• LLDP	Yes
• eMVesproduct function / languasticsVes• PROFINET to diagnosisYes• PROFINET to diagnosisYes• PROFINET to diagnosisYes• SNMP v1Yes• SNMP v2Yes• SNMP v2Yes• SNMP v3Yes• SNMP v4Yes• SNMP v3Yes• SNMP v2Yes• SNMP v3Yes• SNMP v4Yes• SNMP v5Yes• SNMP v5Yes• OthCP Detect function / VLANYes• OthCP ServerYes• OthCP ServerYes• OthCP ServerYes• OthCP ServerYes• OthCP ServerYes• SNPYes• SNPYes<	identification & maintenance function	
product functions / diagnostics Yes product function Yes protect // is supported Yes SNMP V1 Yes SNMP V2 Yes SNMP V3 Yes SNMP V4 Yes SNMP V2 Yes SNMP V2 Yes SNMP V3 Yes product functions / VLAN Yes product functions / DHCP Product functions / DHCP product functions / DHCP Yes product functions / Fedundancy Yes product functions / redundancy Yes product functions / redundancy Yes product functions / redundancy Yes product functions / security Yes product function / security Yes itel 802 / 11 (catus 1) Yes itel 802 / 12 (catus) </td <td> I&M0 - device-specific information </td> <td>Yes</td>	 I&M0 - device-specific information 	Yes
product functions / diagnostics Yes product function Yes protect // is supported Yes SNMP V1 Yes SNMP V2 Yes SNMP V3 Yes SNMP V4 Yes SNMP V2 Yes SNMP V2 Yes SNMP V3 Yes product functions / VLAN Yes product functions / DHCP Product functions / DHCP product functions / DHCP Yes product functions / Fedundancy Yes product functions / redundancy Yes product functions / redundancy Yes product functions / redundancy Yes product functions / security Yes product function / security Yes itel 802 / 11 (catus 1) Yes itel 802 / 12 (catus) </td <td>•</td> <td>Yes</td>	•	Yes
product function Yes • PROFINET IO diagnosis Yes • SNMP v1 Yes • SNMP v2c Yes • SNMP v3 Yes product functions / VLAN Yes product functions / DLOP Yes product functions / DLOP Yes product functions / DLOP Yes • DHCP deriver Yes • DHCP deriver Yes • Pottor functions / redundancy Yes product functions / redundancy Yes product functions / socurity Yes • KBTP Yes • KBTP Yes • KATIANAPT No • ACL - MAC-based No		
PROFINET IC diagnosis Yes protocol / is supported Yes SNMP v2 Yes SNMP v3 Yes product functions / VLAN Yes product functions / VLAN Yes product functions / DICP Yes OHCP option 82 Yes product functions / redmannery Yes is StrPRSTP Yes orduct functions / security Yes product functions / security Yes inter 00x / 1x (radius) Yes orduct functions / security Yes inter 00x / 1x (radius) Yes <td< td=""><td></td><td></td></td<>		
protocol / is supported Yes SNMP v2c Yes SNMP v2c Yes product function Yes inuction VLAN with NVLAN Yes product function Yes of function VLAN with NVLAN Yes product function Yes of UCP Center Yes product function Yes OHCP Center Yes product function Yes OHCP Center Yes product functions / security Yes product functions / security Yes reduct function Yes SSTP Yes *STP Yes *STP Yes *Inction / security Yes reduct function No *ACL - MAC-based No *management security, ACL-P based Yes reduct function / security Yes *RADIUS Yes protocol / is supported Yes *SSH Yes *RADIUS <td< td=""><td>-</td><td>Yes</td></td<>	-	Yes
• SNMP v1Yes• SNMP v20Yes• SNMP v3Yesproduct functions / VLANYesproduct functions / VLAN with INULANYesproduct functions / DICP• function / VLAN with INULANYesproduct functions / DICP• DICP clientYes• DICP ClientYes• DICP ClientYes• DICP Coption 52Yesproduct functions / supported• STP/RSTPYes• STP/RSTPYes• STP/RSTPYes• RACL - MAC-basedNo• ACL - MAC-basedYes• Coccess protoctoring to IEEE802.111Yes• NTPARSTPYes• STP/RSTPYes• STP/RSTPYes <t< td=""><td></td><td></td></t<>		
• SNMP v2cYes• SNMP v3Yesproduct functions //LANYesproduct functions //LANYesproduct functions //LANYesproduct functions //LANYesproduct functions //LANYes> DHCP Option R2Yes> MSTPYes• MSTPYes• MAC1-MAC-basedYes• MAC1-MAC-basedYes• MATPAYes• MATPAYes• MATPAYes• MATPAYes• MATPAYes• MATPAYes• MATPAYes• MATPAYes• THCHAESYes> THCHAESYes> Product functions / Yes• SMATC time synchronization (SMATHC Time)Yes• SMATC time synchronization (SMATHC Time)Yes• SMATC time function / function / YesYes• CTICkYes• CD Eclaration of ConformityYes• CD Eclaration of ConformityYes• CD Ecl		Vec
SNMP v3 Yes product functions / VLAN whi INVLAN Yes - function VLAN whi INVLAN Yes product functions / DHCP Yes product functions / DHCP Yes - DHCP client Yes - DHCP Option 82 Yes product functions / redundancy Yes product functions / security Yes itleE e02.1x (radius) Yes SBH Yes		
product functions / VLAN yroduct functions function VLAN with WUAN Yes product functions / DHCP product functions / DHCP olient. Yes STPRSTP Yes STARSTP Yes NATP Yes Product function / * ARTP Yes ACL - MAC-based Yes NATAWAPT No ACL - MAC-based Yes VARWPA2 Yes VARWPA2 VERDUIS		
product function Yes infunction VLAN with IWLAN Yes product functions / DHCP product functions / DHCP Clent Yes DHCP clent Yes DHCP Option 82 Yes product functions / redundancy protocol / is supported • STP/RSTP Yes • RSTP Yes product functions / security Yes product functions / security Yes product function • ACL - MAC-based • ACL - MAC-based No • management security, ACL-IP based Yes • IEEE 802 1x (radius) Yes • NAT/NAPT No • access protection according to IEEE802.111 Yes • WPA/WPA/2 Yes • TKIP/AES Yes protocol / is supported . • SSH Yes • SNTP Yes • SNTP Yes • SIMATC time synchronization (SIMATIC Time) Yes standard • for FM FM 3611: Class I, Division		
• function VLAN with IWLAN Yes product functions / INEP		
product functions / DHCP product function DHCP clinit Ves DHCP Server Ves DHCP Option 82 Product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP Product functions / security product function • ACL - MAC-based • NAT/NAPT • NAT/NAPT • CLE 802.1x (radius) • Ves • NAT/NAPT • No • access protection according to IEEE802.11i • Ves • TMIP/AES protocol / is supported • SSH • SSH • NTP • SSH • SIMATIC time synchronization (SIMATIC Time) Yes similards, specifications, approvals standard • for FM • ECE Declaration of Conformity • ECE Declara		
product function Yes DHCP client Yes DHCP Option 82 Yes product functions / redundancy Yes protocol / is supported * • STP/RSTP Yes • NSTP Yes product functions / redundancy Yes product functions / security Yes product functions security product functions ACL - MAC-based • ACL - MAC-based Yes • ACL - MAC-based Yes • CAL - MAC-based Yes • IEEE 802.1x (radius) Yes • NAT/NAPT No • access protection according to IEEE802.111 Yes • WPA/WPA2 Yes protocol / is supported Yes • SNTP Yes • SNTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standards, specifications, approvals Yes standards, specifications, approvals Yes * Cortick Yes • Caclination of Conformity Yes <		Yes
• DHCP clientYes• DHCP ServerYes• DHCP Option 82Yesprotocol / is supported*********************************		
• DHCP serverYesDHCP Option 82Yesproduct functions / redundancyprotocol /is supportedYes• STP/RSTPYes• MSTPYes• RSTPYesproduct functions / securityYesproduct functions / security, ACL-IP basedYes• ACL - MAC-basedNo• ACL - MAC-basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• TKIP/AESYesprotocol /is supportedYes• SSHYes• RADIUSYesprotocol /is supportedYes• SIMATIC time synchronization (SIMATIC Time)Yes* SIMATIC time synchronization (SIMATIC Time)Yes* standardYes• for FMYes• CE carakingYes• CE carakingYes• CE carakingYes• CE fielso-3Yes• E C beclaration of ConformityYes• E C beclaration of ConformityYes• CE fielso-3Yes• E fiel approvalYes• E c beclaration of ConformityYes• E c beclaration		
• DHCP Option 82 Yes protocol // is supported . • STP/RSTP Yes • NSTP Yes • NSTP Yes product functions / security Yes product function No • ACL - MAC-based No • management security, ACL-IP based Yes • NAT/NAPT No • access protection according to IEEE802.111 Yes • NAT/NAPT No • access protection according to IEEE802.111 Yes • TKIP/AES Yes • TKIP/AES Yes protocol // is supported Yes • SSH Yes • SIMATIC time synchronization (SIMATIC Time) Yes * SIMATIC time synchronization (SIMATIC Time) Yes * SIMATIC time synchronization (SIMATIC Time) Yes * for FM FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class I, Zone 2, Group IIC, T4, FM 16US02025X certificate of suitability Yes • CE Coclaration of Conformity Yes • CE Coclaration of Conformity Yes	DHCP client	Yes
product functions / redundancy protocol / is supported • STP/RSTP Yes • MSTP Yes • RSTP Yes product functions / security Yes product functions / security Yes product function • ACL - MAC-based • ACL - MAC-based No • nanagement security, ACL-IP based Yes • INAT/NAPT No • NAT/NAPT No • NAT/NAPT No • NAT/NAPT No • StH Yes protocol / is supported Yes • SSH Yes protocol / is supported Yes • NTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standard • for FM FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class I, Zone 2, Group IIC, T4, FM16US0205X cettificate of suitability Yes Yes • EC Declaration of Conformity Yes • CTock Yes • CTock Yes • E1 approval Yes	DHCP server	Yes
protocol / is supported STP/RSTP WSTP Yes MSTP Yes SSTP Yes Yes Product functions / security Product functions / security ACL - MAC-based No management security, ACL-IP based Yes EEE 802.1x (radius) Yes IEEE 802.1x (radius) Yes IEEE 802.1x (radius) Yes IEEE 802.1x (radius) Yes NatrivAPT No Secess protection according to IEEE802.11i Yes Yes TKIP/AES Yes Standards, specifications, approvals standard Yes Yes Standards, specifications, approvals standard Yes <	DHCP Option 82	Yes
• STP/RSTP Yes • MSTP Yes • RSTP Yes product function ************************************	product functions / redundancy	
• MSTP Yes • RSTP Yes product functions / security • product functions / security • • AC1 - MAC-based No • management security, ACL-IP based Yes • IEEE 802.1x (radius) Yes • NAT/NAPT No • access protection according to IEEE802.11i Yes • WPAWPA2 Yes • TKIP/AES Yes protocol / is supported Yes • SSH Yes • SSH Yes • NTP Yes • SNTP Yes • SNTP 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 I, Zone 2, Group IIC, T4, FM16US0205X certificate of suitability Yes • CE Coclaration of Conformity Yes • CE contarking Yes • CTick Yes • CE filspo-3 No • Power-over-Ethernet according to IEEE802.3at for type 2 Yes	protocol / is supported	
• RSTP Yes product functions / security Product function • ACL - MAC-based No • management security, ACL-IP based Yes • IEEE 802.1x (radius) Yes • NAT/NAPT No • access protection according to IEEE802.111 Yes • WPA/WPA2 Yes • TKIP/AES Yes • TKIP/AES Yes • RADIUS Yes protocol / is supported Yes • SSH Yes • NTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standards Spoordal • for FM FM 3611: Class 1, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X certificate of suitability Yes • CE Clastation of Conformity Yes • CE Class-3 No • CE G1850-3 No • Cettificate class-3 Yes • Cettificate class-3 Yes • Cettificate class-3 Yes • Cettificate of suitability Yes • Cettificate of suitability Yes • Cettificate	• STP/RSTP	Yes
product functions / security product function • ACL - MAC-based No • management security, ACL-IP based Yes • IEEE 802.1x (radius) Yes • NAT/NAPT No • access protection according to IEEE802.11i Yes • NAT/NAPT No • access protection according to IEEE802.11i Yes • TKIP/AES Yes protocol / is supported	MSTP	Yes
product function ACL - MAC-based No • management security, ACL-IP based Yes • IEEE 802.1x (radius) Yes • NAT/NAPT No • access protection according to IEEE802.111 Yes • WPA/WPA2 Yes • TKIP/AES 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, FM16BUS0205X certificate of suitability Yes • CE marking Yes • C-Tick Yes • EC Declaration of Conformity Yes • CTick Yes • EC Belsto-3 No • EC 61850-3 No • Fower-over-Ethernet according to IEEE802.3at for type 2 Yes	RSTP	Yes
• ACL - MAC-based No • management security, ACL-IP based Yes • IEEE 802.1x (radius) Yes • NAT/NAPT No • access protection according to IEEE802.11i Yes • WPA/WPA2 Yes • TKIP/AES Yes protocol / is supported Yes • RADIUS Yes product functions / time Yes protocol / is supported Yes • RADIUS Yes sSH Yes somported Yes • NTP Yes • SIMATIC time synchronization (SIMATIC Time) Yes standard FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class I, Zone 2, Group IIC, T4, FM16US0205X certificate of suitability Yes • EC Declaration of Conformity Yes • CTick Yes • CTick Yes • E1 approval Yes • E1 approval Yes • E1 opproval Yes • E1 e6 6850-3 No • Power-over-Ethermet according to IEEE802.3at for type 2 Yes	product functions / security	
• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.111Yes• WPA/WPA2Yes• TKIP/AESYes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYesprotocol / is supportedYes• SNTPYes• 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, FM16US0205Xcertificate of suitabilityYes• CE markingYes• CE colearation of ConformityYes• CE markingYes• CE colearation of ConformityYes• EC Declaration of ConformityYes• CE colearation of ConformityYes• CE markingYes• CE figs0-3No• IEEC 61850-3No• Power-over-Ethernet according to IEEE802.3at for type 2Yes	product function	
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• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYesproduct functions / timeYesprotocol / is supportedYes• SNTPYes• 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 , FM16US0205Xcertificate of suitabilityYes• CE Declaration of ConformityYes• CE narkingYes• CTickYes• E1 approvalYes• E1 approvalYes• E1 approvalYes• E1 approvalYes• E1 approvalYes• E1 approvalYes• Power-over-Ethernet according to IEEE802.3at for type 2Yes	 management security, ACL-IP based 	Yes
• NAT/NAPTNo• access protection according to IEEE802.11iYes• wPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• RADIUSYesproduct functions / timeYesprotocol / is supportedYes• RADIUSYesprotocol / is supportedYes• RADIUSYesprotocol / is supportedYes• RADIUSYesprotocol / is supportedYes• 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, FM16US0205Xcertificate of suitabilityYes• EC Declaration of ConformityYes• CE markingYes• CTickYes• EI approvalYes• EI approvalYes• EIC 61850-3No• Power-over-Ethernet according to IEEE802.3at for type 2Yes		
• access protection according to IEEE802.11iYes• WPAWPA2Yes• TKIP/AESYesprotocol / is supported-• SSHYes• RADIUSYesproduct functions / time-protocol / is supported-• NTPYes• SNTPYes• SIMATIC time synchronization (SIMATIC Time)Yesstandards, specifications, approvals-standard-• for FMFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205Xcertificate of suitabilityYes• EC Declaration of ConformityYes• CE markingYes• CTickYes• E1 approvalYes• E1 approvalYes• E1 approvalYes• E1 approvalYes• E1 approvalYes• E1 approvalYes• Power-over-Ethernet according to IEEE802.3at for type 2Yes		
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• SIMATIC time synchronization (SIMATIC Time) Yes standards, specifications, approvals FM standard - • for FM FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X certificate of suitability - • EC Declaration of Conformity Yes • CE marking Yes • C-Tick Yes • E1 approval Yes • IEC 61850-3 No • Power-over-Ethernet according to IEEE802.3at for type 2 Yes		
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• for FMFM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205Xcertificate of suitability• EC Declaration of ConformityYes• CE markingYes• C-TickYes• E1 approvalYes• IEC 61850-3No• Power-over-Ethernet according to IEEE802.3at for type 2Yes		
T4, FM16US0205Xcertificate of suitability• EC Declaration of ConformityYes• CE markingYes• C-TickYes• E1 approvalYes• IEC 61850-3No• Power-over-Ethernet according to IEEE802.3at for type 2Yes		
EC Declaration of ConformityYesCE markingYesC-TickYesE1 approvalYesIEC 61850-3NoPower-over-Ethernet according to IEEE802.3at for type 2Yes	• for FM	
• CE markingYes• C-TickYes• E1 approvalYes• IEC 61850-3No• Power-over-Ethernet according to IEEE802.3at for type 2Yes	certificate of suitability	
C-TickYesE1 approvalYesEIC 61850-3NoPower-over-Ethernet according to IEEE802.3at for type 2Yes	EC Declaration of Conformity	Yes
• E1 approvalYes• IEC 61850-3No• Power-over-Ethernet according to IEEE802.3at for type 2Yes	CE marking	Yes
IEC 61850-3 No Power-over-Ethernet according to IEEE802.3at for type 2 Yes	• C-Tick	Yes
IEC 61850-3 No Power-over-Ethernet according to IEEE802.3at for type 2 Yes	• E1 approval	Yes
Power-over-Ethernet according to IEEE802.3at for type 2 Yes		
	standard for wireless communication	

• IEEE 802.11a	Yes
• IEEE 802.11b	Yes
• IEEE 802.11e	Yes
• IEEE 802.11g	Yes
• IEEE 802.11h	Yes
• IEEE 802.11i	Yes
• IEEE 802.11n	Yes
• IEEE 802.11ac	Yes
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc
from CSA and UL	UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, E240480
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
• as marking	Ex nA IIC T4 Gc
accessories	
accessories	pre-assembled holder for attachment to a DIN rail
further information / internet links	
internet link	
 to website: TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
 to the website: IWLAN 	http://www.siemens.com/iwlan
 to website: Industry Mall 	https://mall.industry.siemens.com
 to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
 to website: Image database 	http://automation.siemens.com/bilddb
 to website: CAx-Download-Manager 	http://www.siemens.com/cax
 to website: Industry Online Support 	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)
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