SIEMENS

Data sheet

6GK5786-2HC00-0AB0

product type designation



W786-2IA RJ45 (USA)

IWLAN Access Point, SCALANCE W786-2IA RJ45, 2 radios, 6 internal antennas, iFeatures support via key plug, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbit/s per radio, 1x RJ45 max. 1 Gbit/s, PoE, redundant 24 V DC, terminal block, 110 - 230 V AC via PS791-2AC IP65, -40..+60 °C, plug slot, WPA2/802.11i/e, observe national approvals! CERT ID: EAPN-W2-RJ-I3, includes: MPCIE-R1-ABGN-U3, scope of delivery: Manuals on CD-ROM, German/English, 1x terminal block; for operation in the USA

transfer rate	
transfer rate	
with WLAN / maximum	450 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 connections	
 for network components or terminal equipment 	1
for power supply	1
for redundant voltage supply	1
type of electrical connection	
 for network components or terminal equipment 	RJ45 socket
• for power supply	2-pole connector (24 V DC) or optionally available power supply adapter (4-pole 24 V DC or 3-pole 110 to 230 V AC)
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	2
transmission mode / for multiple input multiple output (MIMO)	3x3
number of spatial streams	3
number of internal antennas	6
antenna gain compared to spherical radiator / of the WLAN antenna	
• in the 2.4 GHz frequency band	3 dB
• in the 5 GHz frequency band	4 dB
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage	
 from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af 	48 V
 from Power-over-Ethernet according to IEEE802.3at for type 2 	50 V
• from optional integrable power supply	

at NC 100 - 240 V Operation 12 - 241 V Occasioned current		
consumed current at 20 V / typical with Power-core (Ehernet according to IEEE802.3at for O22A	— at AC	100 240 V
Bell Crit at 2 M / Typical B	— at DC	12 24 V
A AC I at 230 V i typical A With Proves one Element according to IEEE802.3st for type I and IEEE802.3st for type I and IEEE802.3st fypical A I AC I at 230 V i typical A I AC I at 230 V i typical A I AC I at 230 V i typical A I AC I at 230 V i typical A I AC I at 230 V i typical A I AC I at 230 V i typical A I AC I at 230 V i typical A I S W Supply voltage (1) A I Don terminal block Supply voltage (2) A I DON terminal block A I DON term	consumed current	
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ype 1 and IEEE802.34 / typical Power loss [W] * If DC / at 24 V / typical * at DC / a	at AC / at 230 V / typical	0.07 A
power loss [V] at DC (at 24 VI typical) by 1 and CC (at 230 VI typical) civity Power-over-Ehemet according to IEEE802 3at for type 1 and IEEE802 3at fyright civity Power over-Ehemet according to IEEE802 3at for type 1 and IEEE802 3at fyright supply voltage / 1 civity Power over-Ehemet according to IEEE802 3at for type 1 and IEEE802 3at fyright civity Voltage / 2 civity Voltage / 2 civity Power over-Ehemet according to IEEE802 3at for type 1 and IEEE802 3at fyright supply voltage / 2 civity Voltage / 2 civity Power over-Ehemet according to IEEE802 3at for type 1 and IEEE 200 3at fyright civity Voltage / 2 civity Power over-Ehemet according to IEEE802 3at for type 1 and IEEE 200 3at fyright civity Voltage / 2 civity Power over-Ehemet according to IEEE802 3at for type 1 and IEEE 200 3at fyright civity Voltage / 2 civity Power over-Ehemet according to IEEE802 3at for type 1 and IEEE 200 3at for type 2 and IEEE 200 3at for		0.22 A
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- during storage - during transport relative humidin / at 25 °C / without condensation / during operation / maximum - ambient condition / for operation When using the 100 - 240 V AC power supply, an operating temperature of -40 °C to +60 °C is permissible protection class IP design, dimonsions and weights width / of the enclosure / without antenna - depth / of the enclosure / without antenna - depth / of the enclosure / without antenna - depth / of the enclosure / without antenna - depth / of the enclosure / without antenna - ret weight - 224 kg - distaining method - s7-300 rail mounting - \$7-300 rail mount	·	
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operation / maximum ambient condition / for operation When using the 100 _ 240 V AC power supply, an operating temperature of -40 'C to +60 °C is permissible protection class IP design, dimensions and weights width / of the enclosure / without antenna	- ·	
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• wall mounting Yes radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product freatures, product functions, product components / general product function / Access Point Mode product function / Client Mode yes number of SSIDs product function • iPCF Access Point • iPCF-Client • iPCF-MC Access Point • iPCF-MC client • iPCF-MC client • iPCF-MC client • iPCF-Capable radio modules product function / iREF number of iREF-capable radio modules 2 product function / iPRP product functions / management, configuration, engineering number of manageable IP addresses / in client • CLI • web-based management 2.41 2.48 GHz; depending on the country approvals 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals	· ·	
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for WLAN in 5 GHz frequency band 4.9 5.8 GHz; depending on the country approvals product function / Access Point Mode	operating frequency	
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product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-und Access Point • iPCF-MC Client **Yes; Only in combination with the "KEY-PLUG W780 iFeatures" or "KEY-PLUG W740 iFeatures" • iPCF-MC Client **Yes; Only in combination with the "KEY-PLUG W780 iFeatures" or "KEY-PLUG W740 iFeatures" **Post only in combination with "KEY-PLUG W780 iFeatures" or "KEY-PLUG W740 iFeatures" or "KEY-PLUG W740 iFeatures" **Inumber of iPCF-capable radio modules **product function / iREF **In combination only with "KEY-PLUG W780 iFeatures" **product function / iPRP **Testing in combination with the "KEY-PLUG W780 iFeatures" only **product function / iPRP **Testing in combination with the "KEY-PLUG W780 iFeatures" only **product function / iPRP **Testing in combination with the "KEY-PLUG W780 iFeatures" only **product function / iPRP **Testing in combination with the "KEY-PLUG W780 iFeatures" only **Post in combination with the "KEY-PLUG W780 iFeatures" only **Post in combination with the "KEY-PLUG W780 iFeatures" only **product function / iPRP **Testing in combination with the "KEY-PLUG W780 iFeatures" only **Post in combination with the "KEY-PLUG W780 iFeatures" only **Post in combination with the "KEY-PLUG W780 iFeatures" only **Post in combination with the "KEY-PLUG W780 iFeatures" only **Post in combination with the "KEY-PLUG W780 iFeatures" only **Post in combination with the "KEY-PLUG W780 iFeatures" only **Post in combination with the "KEY-PLUG W780 iFeatures" only **Post in combination with the "KEY-PLUG W780 iFeatures" only **Post in combination with the "KEY-PLUG W780 iFeatures" only **Post in combination with the "KEY-PLUG W780 iFeatures" on "KEY-PLUG W780 iFeatures"	product features, product functions, product components / gene	eral
number of SSIDs product function • iPCF Access Point • iPCF client • iPCF client • iPCF-MC Access Point • iPCF-MC Access Point • iPCF-MC Access Point • iPCF-MC Client Tyes; Only in combination with the "KEY-PLUG W780 iFeatures' or "KEY-PLUG W740 iFeatures' • iPCF-MC Client Yes; Only in combination with the "KEY-PLUG W780 iFeatures' or "KEY-PLUG W740 iFeatures' number of iPCF-capable radio modules product function / iREF yes; In combination only with "KEY-PLUG W780 iFeatures' 2 product function / iPRP Yes; In combination with the "KEY-PLUG W780 iFeatures' yes; In combination with the "KEY-PLUG W780 iFeatures' 1 yes; In combination with the "KEY-PLUG W780 iFeatures' 1 Yes; In combination with the "KEY-PLUG W780 iFeatures' 1 Yes; In combination with the "KEY-PLUG W780 iFeatures' only 1 Product function / iPRP Product function / iPRP 1 Product function / iPRP 2 Product function • CLI • web-based management Yes	product function / Access Point Mode	Yes
product function • iPCF Access Point • iPCF client • iPCF client • iPCF client • iPCF-MC Access Point • iPCF-MC Access Point • iPCF-MC Access Point • iPCF-MC Access Point • iPCF-MC client • iPCF-MC cl	product function / client Mode	Yes
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PCF client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' PCF-MC Access Point PCF-MC client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Number of iPCF-capable radio modules product function / iREF Number of iREF-capable radio modules product function / iPRP Yes; In combination with the 'KEY-PLUG W780 iFeatures' Yes; In combination with the 'KEY-PLUG W780 iFeatures' only Product functions / management, configuration, engineering Number of manageable IP addresses / in client Product function CLI Wes Yes	•	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
iPCF-MC Access Point iPCF-MC client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2 product function / iPRP Yes; In combination with the 'KEY-PLUG W780 iFeatures' only Product functions / management, configuration, engineering number of manageable IP addresses / in client product function CLI Yes web-based management Yes		Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG
• iPCF-MC client Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2 product function / iPRP Yes; In combination with the 'KEY-PLUG W780 iFeatures' only Product functions / management, configuration, engineering number of manageable IP addresses / in client Product function • CLI • Wes • web-based management Yes	• iPCF-MC Access Point	
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product function / iPRP Product functions / management, configuration, engineering number of manageable IP addresses / in client product function • CLI • web-based management Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only Product function 8 Yes		·
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number of manageable IP addresses / in client 8 product function • CLI Yes • web-based management Yes	·	res, in combination with the 'KEY-PLUG W/80 iFeatures' only
product function • CLI • web-based management Yes Yes		
 CLI web-based management Yes Yes 	-	8
• web-based management Yes	·	
	• CLI	Yes
MIB support	 web-based management 	Yes
	MIB support	Yes

Inches was drained with STEP 7 In the TTA Pertail Inches 9 Inches 1	TRAPs via email	Yes
- configuration with STEP 7 in the TIA Portal - operation with Exheracy WLAN controller - operation with Exheracy WLAN controller - forced roarning on IP down with IWAN - Vies - forced roarning on IP down with IWAN - Yes - forced view supported - Address Resolution Protocol (ARP) - Yes - Telest - Address Resolution Protocol (ARP) - Yes - Telest - HITP - Yes - TITP - Yes - TITP - Yes - TITP - Yes - TITP - Yes - CICIP - Yes - LILDP - Yes - CICIP - Yes - LILDP - Yes - CICIP - Yes - LILDP -		
operation with Embrasys WLAN controller of noted roaming on link down with WLAN ves ves ves ves protocal / is supported oddress Resolution Protocol (ARP) ves		
Forced roaming on the down with IMILAN		
Forcad raining on link down with IMULAN FORCAD Protocol / is supported * Address Resolution Protocol (ARP) * CAPP * Tainet * HTTP * Yes * HTTP * Yes * HTTP * Yes * TETP * DCP * LLDP * LLDP * LLDP * LLDP * LLDP * Wes * LIMIN - specific information * IAMIN - specific information * PROFINIET IC diagnosis * Connection monitoring IP-Alive * SNAMP v2 * Yes * Yes * Yes * SNAMP v2 * Yes * Yes * SNAMP v2 * Yes * Yes * Yes * Yes * SNAMP v2 * Yes *		
MOS		
protocol is supported		
		Yes
CICMP		
• Tenet • HTTP • HTTP • HTTP • HTTP • HTTP • CP • HTTP • CP • CP • CP • LLDP • LLDP • LLDP • LLDP • LLDP • LLMO- device specific information • I&M0 - device specific information • I&M1 - higher level designation/location designation product functions / diagnostics product function • PROFINET IO diagnosis • PROFINET IO diagnosis • PROFINET IO diagnosis • PROFINET IO diagnosis • Inix check • No • Localization via Aeroscout • Yes • Iosalization via Aeroscout • Yes • SMMF v1 • SMMF v2 • SMMF v3 • Yes • SMMF v2 • PROFINET IO VIAN product functions / VLAN product functions / VLAN product functions / DPCP product functions / DPCP product functions / DPCP product functions / PRSTP • DHCP client • STPRSTP • Yes • STP • MSTP • STP • MSTP • ACL - MAC-based • ACL - MAC-based • Yes • INDIPACE • TRIPACES • Yes • TRIPACES • TRIPACES • Yes • TRIPACES •		
HTTP	• ICMP	Yes
• HTTPS • TFTP • PCP • CDP • LLDP • Yes • LLDP • LLDP • Yes • LLDP • LLDP • Yes • LLDP • Yes • LAMD - device-specific information • I&MI0 - device-specific information • LAMD - device-specific information • PROFINET IC diagnosis • PROFINET IC diagnosis • PROFINET IC diagnosis • Inix check • No • connection monitoring IP-Alive • Inix check • No • connection wia Aeroscout • SysLog • Yes • Jordon via Supported • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • SNMP v3 • Yes • SNMP v3 • SNMP v3 • Yes • SNMP v3 • Yes • Product functions / VLAN • Inix chief in the time of time	Telnet	Yes
• TFTP	• HTTP	Yes
e LIDP Iclandication & maintenance function	• HTTPS	Yes
Identification & maintenance function	• TFTP	Yes
identification & maintenance function ilaM - device-specific information Yes ilaM - Injent fevel designation/cation designation Yes	• DCP	Yes
• I&M0 - device-specific information Yes ABM1 - higher leviel designation/location designation Yes	• LLDP	Yes
e.RM1 - higher level designation/location designation product functions / diagnostics product function PROFINET IO diagnosis Init check No connection monitoring IP-Alive No localization via Aeroscout SysLog SysLog Protocol / is supported SNMP v1 SNMP v2 SNMP v2 SNMP v3 Yes SNMP v3 Yes Product functions / VLAN Product function Office of the product functions / VLAN Product function Office of the product functions / VLAN Product function Office of the product functions / VLAN Product function / VLAN Product function Office of the product function Office of the product function Office of the product function of the product f	identification & maintenance function	
product function diagnostics	 I&M0 - device-specific information 	Yes
product function Alagnostics product function PROFINET IO diagnosis Yes No connection monitoring IP-Alive No Syst.og Yes Production SNMP v1 Yes SNMP v2 Yes SNMP v3 Yes Product function Innction VLAN with INVLAN Product function DHCP client Yes DHCP Option 82 Yes Product functions / redundancy Product functions / security Product functions / supported SNP SNP Yes Product functions / supported NTP Product functions / security Product functions / security Product functions / supported NTP Product functions / security Product functions	• I&M1 - higher level designation/location designation	Yes
product function PROFINET IO diagnosis PROFINET IO diagnosis Ink check Connection monitoring IP-Alive Connection was Aeroscout Pes Syst.og Proficeor / S supported SNMP v1 SNMP v2 SNMP v2 SNMP v3 Product functions / VLAN Product functions / VLAN Product functions / DHCP Product functions / Profice / Profit in the pr		
• link check No • connection monitoring IP-Alive No No • connection monitoring IP-Alive No Ves SysLog Yes	•	Yes
connection monitoring IP-Alive localization via Aeroscout Yes SyNLog Protocol / is supported SNMP v1 Yes SNMP v2 Yes SNMP v2 Yes SNMP v3 Yes Product functions / VLAN OHCP client Yes OHCP off client Yes OHCP off client Yes		
• localization via Aeroscout		
SysLog		
protocol / is supported • SNMP v1 • SNMP v2 • SNMP v3 Product functions / VLAN product function • function VLAN with IWLAN product function / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • MSTP • RSTP Product functions / security product function / security product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPAWPA2 • TKIP/AES protocol / is supported • SSH • RSDH • SSH • RSDH • SSH • RSDH • SSH • RSDH • SSSH • SSSH • RSDH • SSSH • SSSH • RADIUS protocol / is supported • SSH • NTP • NTP		
• SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 product functions / VLAN product functions / VLAN product functions / DHCP product functions / DHCP product functions / DHCP product function v2		100
SNMP v2 SMMP v3 Yes product functions / VLAN product function function VLAN with IWLAN Fres product function / DHCP product functions / DHCP product function DHCP client OHCP server OHCP server Yes OHCP Option 82 Yes product functions / redundancy protocol / is supported STP/RSTP Yes RSTP Yes RSTP Yes Product functions ACL - MAC-based Macagement security, ACL-IP based NATNAPT Access protection according to IEEE802.11i WPAWPA2 Yes protocol / is supported SSH RADIUS Protocol / is supported SSH Protocol / is supported NTP Protocol / is supported NTP Protocol / is supported NTP Protocol / is supported NTP Protocol / is supported NTP Protocol / is supported NTP Protocol / is supported NTP Protocol / is supported NTP Protocol / is supported NTP Protocol / is supported NTP Protocol / is supported NTP Protocol / is supported NTP Protocol / is supported		Vac
• SNMP v3 Yes product functions / VLAN product function • function VLAN with IWLAN Yes product function • function VLAN with IWLAN Yes product function • DHCP client Yes • DHCP Server Yes • DHCP Option 82 Yes product functions / redundancy protocol / is supported • STP/RSTP Yes • RSTP Yes • 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 protocol / is supported • SSH Yes protocol / is supported • NTP Yes Protocol / is supported • NTP Yes		
product functions / VLAN product function		
product function • function VLAN with IWLAN		165
• function VLAN with IWLAN product functions / DHCP product function • DHCP client Yes • DHCP server Yes • DHCP Option 82 Yes product functions / redundancy protocool / is supported • STP/RSTP Yes • RSTP Yes • RSTP Yes product functions / security product functions / security product function • 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 • SSH Yes • RADIUS product functions / Security Productor / Yes • RADIUS productor / Yes • RADIUS productor / Yes • RADIUS protocol / is supported • NTP • NTP Yes		
product functions / DHCP	•	Von
product function • DHCP client • DHCP server • DHCP Server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • MSTP • RSTP product functions / security product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported • SSH • RADIUS product functions / yes Product functions		Tes
• DHCP client Yes • DHCP Server Yes • DHCP Option 82 Yes product functions / redundancy protocol / is supported • STP/RSTP • MSTP • MSTP • RSTP product functions / security product function • ACL - MAC-based • management security, ACL-IP based Yes • interest is interest. Yes • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported • SSH • RADIUS product functions / time protocol / is supported • NTP • NTP Yes Yes Product functions / time protocol / is supported • NTP • NTP Yes		
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• 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 • IEEE 802.1x (radius) Yes • NAT/NAPT No • access protection according to IEEE802.11i Yes • WPAWPA2 Yes • TKIP/AES Yes protocol / is supported • SSH Yes product functions / time protocol / is supported • NTP Yes		
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■ MSTP ■ RSTP Yes product functions / security product function ■ ACL - MAC-based ▼es ■ management security, ACL-IP based ■ IEEE 802.1x (radius) ■ NAT/NAPT ■ access protection according to IEEE802.11i ■ wPA/WPA2 ■ TKIP/AES protocol / is supported ■ SSH ■ RADIUS Product functions / time protocol / is supported ■ NTP Pyes Pyes Protocol / is supported ■ NTP Pyes Pyes Protocol / is supported NTP Pyes	protocol / is supported	
● RSTP Yes product functions / security ● 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 ● RADIUS Yes product functions / time protocol / is supported Yes ● NTP 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 • SSH Yes • RADIUS Yes product functions / time protocol / is supported • NTP Yes	• STP/RSTP	Yes
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 NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES Protocol / is supported SSH RADIUS Product functions / time NTP No No Yes Yes Yes Yes Yes Yes Protocol / is supported NTP Yes 	STP/RSTP MSTP RSTP product functions / security product function	Yes Yes
 NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES Protocol / is supported SSH RADIUS Product functions / time NTP No No Yes Yes Yes Yes Yes Yes Protocol / is supported NTP Yes 	STP/RSTP MSTP RSTP product functions / security product function ACL - MAC-based	Yes Yes
access protection according to IEEE802.11i WPA/WPA2 TKIP/AES Yes protocol / is supported SSH RADIUS Product functions / time protocol / is supported NTP Yes Yes Yes Yes Yes Yes	STP/RSTP MSTP RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based	Yes Yes Yes
	STP/RSTP MSTP RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius)	Yes Yes Yes Yes Yes Yes
● TKIP/AES protocol / is supported ● SSH ● RADIUS Product functions / time protocol / is supported ● NTP Yes Yes Yes	STP/RSTP MSTP RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT	Yes Yes Yes Yes Yes Yes Yes No
protocol / is supported SSH RADIUS Product functions / time protocol / is supported NTP Yes Yes Yes	STP/RSTP MSTP RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i	Yes
● SSH Yes ● RADIUS Yes product functions / time protocol / is supported ● NTP Yes	STP/RSTP MSTP RSTP Product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2	Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes
● RADIUS product functions / time protocol / is supported ● NTP Yes	STP/RSTP MSTP RSTP Product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES	Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes
product functions / time protocol / is supported • NTP Yes	STP/RSTP MSTP RSTP Product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported	Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes
protocol / is supported • NTP Yes	STP/RSTP MSTP RSTP Product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH	Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes
• NTP Yes	STP/RSTP MSTP RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS	Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes
	STP/RSTP MSTP RSTP Product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS product functions / time	Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes
• ONIT	STP/RSTP MSTP RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS product functions / time protocol / is supported	Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
	STP/RSTP MSTP RSTP Product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES protocol / is supported SSH RADIUS Product functions / time protocol / is supported NTP	Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes 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, FM16US0205X
certificate of suitability	
 EC Declaration of Conformity 	Yes
CE marking	Yes
• C-Tick	Yes
■ E1 approval	Yes
 railway application in accordance with EN 50155 	No
 railway application in accordance with EN 50121-4 	No
NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	Yes
 Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	Yes
Power-over-Ethernet according to IEEE802.3at for type 2 And and for wind an analysis of the second se	Yes
standard for wireless communication	Ven
• IEEE 802.11a	Yes
• IEEE 802.11b	Yes
• IEEE 802.11e	Yes
IEEE 802.11gIEEE 802.11h	Yes Yes
• IEEE 802.11i	Yes
• IEEE 802.111	Yes
wireless approval	For operation in the USA, you will find more information under: www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classification	www.sicinons.de/idineardosungen
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	Yes
• DNV GL	Yes
 Korean Register of Shipping (KRS) 	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
 Polski Rejestr Statkow (PRS) 	Yes
 Royal Institution of Naval Architects (RINA) 	Yes
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
from CSA and UL	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC E240480
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
• as marking	Ex nA IIC T4 Gc
accessories	24 V DC corew terminal included in seems of delivery
accessories further information / internet links	24 V DC screw terminal included in scope of delivery
internet link	
to website: TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to website: The Gelection Feel 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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