SIEMENS

Data sheet

product type designation

6GK5748-1FC00-0AA0

e als	product announced for disc RJ45, 1 radio, 3 R-SMA an IEEE 802.11a/b/g/h/n, 2.4/5 1 Gbps, PoE, redundant 24 WPA2/802.11i/e, signaling RAPN-W1-RJ-E3, includes manuals on CD-ROM, Gerr outside of USA/Israel
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W748-1 RJ45

product announced for discontinuation; IWLAN client, SCALANCE W748-1 RJ45, 1 radio, 3 R-SMA antenna port, iFeatures support via KEY-PLUG, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbps per radio, 1x RJ45 max. 1 Gbps, PoE, redundant 24 V DC, joint block, IP30, temp: -20 ...+60 °C, WPA2/802.11i/e, signaling contact observe national approvals! cert ID: RAPN-W1-RJ-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: manuals on CD-ROM, German/English, 2x joint blocks; for operation butside of USA/Israel

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 	4-pole screw terminal, PoE	
design of the removable storage		
• C-PLUG	Yes	
• KEY-PLUG	Yes	
memory		
design of the removable storage		
• C-PLUG	Yes	
• KEY-PLUG	Yes	
interfaces / wireless		
number of radio cards / permanently installed	1	
transmission mode / for multiple input multiple output (MIMO)	3x3	
number of spatial streams	3	
number of electrical connections / for external antenna(s)	3	
type of electrical connection / for external antenna(s)	R-SMA (socket)	
product feature / external antenna can be mounted directly on device	Yes	
signal inputs/outputs		
number of digital inputs	1	
number of digital outputs	1	
type of electrical connection / at the digital inputs/outputs	4-pole screw terminal	
signal range / at digital input	24 V DC, safety extra-low voltage	
signal range / at digital output	24 V DC / 1 A	
supply voltage, current consumption, power loss	supply voltage, current consumption, power loss	

	20
type of voltage / of the supply voltage	DC
supply voltage	40.1/
 from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af 	48 V
 from Power-over-Ethernet according to IEEE802.3at 	50 V
for type 2	
consumed current	
 at DC / at 24 V / typical 	0.45 A
 with Power-over-Ethernet according to IEEE802.3at 	0.22 A
for type 1 and IEEE802.3af / typical	
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	0.21 A
power loss [W]	
at DC / at 24 V / typical	10.7 W
with Power-over-Ethernet according to IEEE802.3at	10.7 W
for type 1 and IEEE802.3af / typical	
 with Power-over-Ethernet according to IEEE802.3at 	10.7 W
for type 2 / typical	
supply voltage / 1	
from terminal block	19.2 V
supply voltage / 2	
from terminal block	28.8 V
ambient conditions	
ambient temperature	
 during operation 	-20 +60 °C
 during storage 	-40 +85 °C
during transport	-40 +85 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	90 %
ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE
	W788-x or W748-x 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.
	54 in compliance with EN 00529.
protection class IP	IP30
protection class IP design_dimensions and weights	IP30
design, dimensions and weights	
design, dimensions and weights width / of the enclosure / without antenna	200 mm
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna	200 mm 158 mm
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna	200 mm 158 mm 79 mm
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna net weight	200 mm 158 mm 79 mm 1.7 kg
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • 35 mm top hat DIN rail mounting	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • 35 mm top hat DIN rail mounting • wall mounting	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • 35 mm top hat DIN rail mounting • wall mounting • of frequencies operating frequency	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • as 5 mm top hat DIN rail mounting • wall mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes Yes Yes Yes
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • as 5 mm top hat DIN rail mounting • wall mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • as 5 mm top hat DIN rail mounting • wall mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • as 5 mm top hat DIN rail mounting • wall mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • as 5 mm top hat DIN rail mounting • wall mounting 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	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • as 5mm top hat DIN rail mounting • wall mounting 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 product function / Access Point Mode	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes Yes Yes Yes Yes
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • S7-1500 rail mounting • as 5 mm top hat DIN rail mounting • wall mounting 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 product function / Access Point Mode product function / client Mode	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general No Yes Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting 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 product function / Access Point Mode product function / client Mode product function • iPCF client	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general No Yes Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures'
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting 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 product function / Access Point Mode product function / client Mode product function	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general No Yes Yes Yes Yes Yes No; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' No; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting • wall mounting operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function • iPCF client • iPCF-MC client	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes <td< td=""></td<>
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting 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 product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes <td< td=""></td<>
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting • wall mounting operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function • iPCF client • iPCF-MC client	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes <td< td=""></td<>
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting 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 product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iPRP	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general No Yes Yes Yes Yes Yes Yes Yes Yes
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • S7-1500 rail mounting • S7-1500 rail mounting • wall mounting • wall mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band • for WLAN in 5 GHz frequency band product function / Access Point Mode product function / client Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iPRP product function / iPRP	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general No Yes Yes Yes Yes Yes Yes Yes Yes
design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting 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 product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iPRP	200 mm 158 mm 79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general No Yes Yes Yes Yes Yes Yes Yes Yes

• CLI	Yes
web-based management	Yes
• MIB support	Yes
TRAPs via email	Yes
 configuration with STEP 7 	Yes
 configuration with STEP 7 in the TIA Portal 	Yes
• WDS	No
protocol / is supported	
 Address Resolution Protocol (ARP) 	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	Yes
identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 – higher level designation/location designation 	Yes
product functions / diagnostics	
product function	
PROFINET IO diagnosis	Yes
Ink check	No
connection monitoring IP-Alive	No
SysLog	Yes
protocol / is supported	163
SNMP v1	Yes
• SNMP v2	Yes
• SNMP v2 • SNMP v3	Yes
product functions / VLAN	165
product functions / vlan	
product function	
product function function VLAN with IWLAN 	No
product function • function VLAN with IWLAN product functions / DHCP	No
product function • function VLAN with IWLAN product functions / DHCP product function	No
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client	No Yes
product function • function VLAN with IWLAN product functions / DHCP product function	
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client	Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server	Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82	Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy	Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported	Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP	Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP	Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP • RSTP product functions / security	Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP • RSTP product functions / security product function	Yes Yes Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • ACL - MAC-based	Yes Yes Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • ACL - MAC-based • management security, ACL-IP based	Yes Yes Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 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)	Yes Yes Yes Yes Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • 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 Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • 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 Yes Yes Yes Yes Yes Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security 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 Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • 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 Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • 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 Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • 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 Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • STP/RSTP • 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 • WPA/WPA2 • TKIP/AES protocol / is supported • SSH • RADIUS	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • 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 Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • 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 Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • 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 Yes Yes Yes Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • 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 Yes Yes Yes Yes

standards, specifications, approvals	
standard	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1
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	No
 Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	Yes
 Power-over-Ethernet according to IEEE802.3at for type 2 	Yes
standard for wireless communication	
• IEEE 802.11a	Yes
• IEEE 802.11b	Yes
• IEEE 802.11e	Yes
• IEEE 802.11g	Yes
• IEEE 802.11h	Yes
• IEEE 802.11i	Yes
• IEEE 802.11n	Yes
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classificatio	n
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 environn	nents
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
accessories	
accessories	24 V DC screw terminal and screw terminal for digital input and output included in the scope of delivery
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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