## SIEMENS

### Data sheet

product type designation

#### 6GK5788-1GD00-0AA0

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#### W788-1 M12

product announced for discontinuation; IWLAN Access Point, SCALANCE W788-1 M12, 1 radio, 3 N-CON antenna port, iFeatures support via KEY-PLUG, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbps per radio, 1x M12 max. 1 Gbps, PoE, redundant 24 V DC,M12 A-coded IP65, -20..+60 °C, plug slot, WPA2/802.11i/e, observe national approvals! cert ID: RAPN-W1-M12-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: manuals on CD-ROM, German/English, M12 sealing caps, for operation outside of USA/Israel

transfer rate	
transfer rate	
<ul> <li>with WLAN / maximum</li> </ul>	450 Mbit/s
<ul> <li>for Industrial Ethernet</li> </ul>	10, 100, 1000 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	1000 Mbit/s
interfaces	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	1
<ul> <li>for power supply</li> </ul>	1
<ul> <li>for redundant voltage supply</li> </ul>	1
type of electrical connection	
<ul> <li>for network components or terminal equipment</li> </ul>	M12 interface (8-pole, X-coded), PoE
for power supply	M12 interface (4-pole, A-coded)
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	Yes
memory	
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	Yes
interfaces / wireless	
number of radio cards / permanently installed	1
transmission mode / for multiple input multiple output (MIMO)	3x3
number of spatial streams	3
number of electrical connections / for external antenna(s)	3
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	
<ul> <li>from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	48 V
<ul> <li>from Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	50 V
consumed current	

	0.45.4
• at DC / at 24 V / typical	0.45 A
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical</li> </ul>	0.22 A
power loss [W]	
• at DC / at 24 V / typical	10.7 W
supply voltage / 1	10.7 W
	10.01/
<ul> <li>from M12 Power Connector (A-coded) for redundant power supply</li> </ul>	19.2 V
supply voltage / 2	-
• from M12 Power Connector (A-coded) for redundant	28.8 V
power supply	
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	90 %
operation / maximum	
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
protection close ID	54 in compliance with EN 60529.
protection class IP	IP65
design, dimensions and weights	
width / of the enclosure / without antenna	200 mm
height / of the enclosure / without antenna	176 mm
depth / of the enclosure / without antenna	79 mm
net weight	1.7 kg
fastening method	For 35 mm DIN rail mounting an additional mounting adapter is required
<ul> <li>S7-300 rail mounting</li> </ul>	Yes
<ul> <li>S7-1500 rail mounting</li> </ul>	Yes
<ul> <li>35 mm top hat DIN rail mounting</li> </ul>	Yes
wall mounting	Yes
radio frequencies	
operating frequency	
• for WLAN in 2.4 GHz frequency band	2.41 2.48 GHz; depending on the country approvals
<ul> <li>for WLAN in 5 GHz frequency band</li> </ul>	
	4.9 5.8 GHz: depending on the country approvals
	4.9 5.8 GHz; depending on the country approvals
product features, product functions, product components	; / general
product features, product functions, product components product function / Access Point Mode	yes
product features, product functions, product components product function / Access Point Mode product function / client Mode	/ general Yes Yes
product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs	yes
product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function	/ general Yes Yes 8
product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point	/ general Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function	/ general Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-
product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client	/ general Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures'
product features, product functions, product components         product function / Access Point Mode         product function / client Mode         number of SSIDs         product function         iPCF Access Point         iPCF client         iPCF-MC Access Point	Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' No
product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client	Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures'
product features, product functions, product components         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	Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-
product features, product functions, product components         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	Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' 1
product features, product functions, product components         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-Capable radio modules         product function / iREF	Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures'
product features, product functions, product components         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-Capable radio modules         product function / iREF         number of iREF-capable radio modules	Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1
product features, product functions, product components         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         number of iPCF-capable radio modules         product function / iREF         number of iREF-capable radio modules         product function / iPRP	/ general         Yes         Yes         8         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         No         Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         No         Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         1         Yes; In combination only with 'KEY-PLUG W780 iFeatures'         1         Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
product features, product functions, product components         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         number of iPCF-capable radio modules         product function / iREF         number of iREF-capable radio modules         product function / iPRP         product functions / management, configuration, engineer	<ul> <li>/ general</li> <li>Yes</li> <li>Yes</li> <li>8</li> <li>Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'</li> <li>Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'</li> <li>No</li> <li>Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'</li> <li>1</li> <li>Yes; In combination only with 'KEY-PLUG W780 iFeatures'</li> <li>1</li> <li>Yes; In combination with the 'KEY-PLUG W780 iFeatures' only</li> </ul>
product features, product functions, product components         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         number of iPCF-capable radio modules         product function / iREF         number of iREF-capable radio modules         product function / iPRP         product functions / management, configuration, engineer         number of manageable IP addresses / in client	/ general         Yes         Yes         8         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         No         Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         No         Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         1         Yes; In combination only with 'KEY-PLUG W780 iFeatures'         1         Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
product features, product functions, product components         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         number of iPCF-capable radio modules         product function / iREF         number of iREF-capable radio modules         product function / iPRP         product functions / management, configuration, engineer         number of manageable IP addresses / in client         product function	Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only ing 8
product features, product functions, product components         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         number of iPCF-capable radio modules         product function / iREF         number of iREF-capable radio modules         product function / iPRP         product function / iPRP         product function         of manageable IP addresses / in client         product function	Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only ing 8
product features, product functions, product components         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         number of iPCF-capable radio modules         product function / iREF         number of iREF-capable radio modules         product function / iREF         number of manageable IP addresses / in client         product function         • CLI         • web-based management	/ general         Yes         Yes         8         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         No         Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         No         Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         1         Yes; In combination only with 'KEY-PLUG W780 iFeatures'         1         Yes; In combination with the 'KEY-PLUG W780 iFeatures' only         ing         8         Yes         Yes
product features, product functions, product components         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         number of iPCF-capable radio modules         product function / iREF         number of iREF-capable radio modules         product function / iPRP         product function         • CLI         • web-based management         • MIB support	/ general         Yes         Yes         8         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         No         Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         1         Yes; In combination only with '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         Ing         8         Yes         Yes         Yes         Yes
product features, product functions, product components         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         number of iPCF-capable radio modules         product function / iREF         number of iREF-capable radio modules         product function / iPRP         product function         product function         0 CLI         • web-based management         • MIB support         • TRAPs via email	/ general         Yes         Yes         8         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         No         Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         1         Yes; In combination only with '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         ing         8         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Yes
product features, product functions, product components         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         number of iPCF-capable radio modules         product function / iREF         number of iREF-capable radio modules         product function / iPRP         product function         ottl         iPCLI         web-based management         MIB support         TRAPs via email         configuration with STEP 7	/ general         Yes         Yes         8         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         No         Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         1         Yes; In combination only with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         1         Yes; In combination with the 'KEY-PLUG W780 iFeatures' only         ing         8         Yes         Yes         Yes         Yes         Yes         Yes
product features, product functions, product components         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         number of iPCF-capable radio modules         product function / iREF         number of iREF-capable radio modules         product function / iPRP         product function         product function         0 CLI         • web-based management         • MIB support         • TRAPs via email	/ general         Yes         Yes         8         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'         Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         No         Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'         1         Yes; In combination only with '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         ing         8         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Yes

operation with Enterasys WLAN controller	No
forced roaming on IP down with IWLAN	Yes
<ul> <li>forced roaming on link down with IWLAN</li> </ul>	Yes
• WDS	Yes
protocol / is supported	
Address Resolution Protocol (ARP)	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	Yes
identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul> <li>I&amp;M1 – higher level designation/location designation</li> </ul>	Yes
product functions / diagnostics	
product function	
PROFINET IO diagnosis	Yes
Ink check	No
Ink check     connection monitoring IP-Alive	No
-	
localization via Aeroscout	Yes
• SysLog	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
product functions / VLAN	
product function	
<ul> <li>function VLAN with IWLAN</li> </ul>	Yes
product functions / DHCP	
product functions / DHCP product function	
	Yes
product function • DHCP client	
product function <ul> <li>DHCP client</li> <li>DHCP server</li> </ul>	Yes
product function • DHCP client • DHCP server • DHCP Option 82	
product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy	Yes
product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported	Yes Yes
product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP	Yes Yes
product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP	Yes Yes Yes
product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP	Yes Yes
product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security	Yes Yes Yes
product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function	Yes Yes Yes
product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP • RSTP product functions / security product function • ACL - MAC-based	Yes Yes Yes Yes Yes
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	Yes Yes Yes Yes Yes
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 • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius)	Yes Yes Yes Yes Yes
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	Yes Yes Yes Yes Yes
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 • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius)	Yes Yes Yes Yes Yes Yes
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 • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT	Yes Yes Yes Yes Yes Yes Yes No
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	Yes Yes Yes Yes Yes Yes Yes Yes No Yes
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	Yes Yes Yes Yes Yes Yes Yes No Yes Yes
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 No Yes Yes
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 No Yes Yes No Yes Yes
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	Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes
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	Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes
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 No Yes Yes Yes Yes
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 • 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 protocol / is supported • NTP • SNTP	Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes
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         protocol / is supported         • SNTP         • SNTP         • SIMATIC time synchronization (SIMATIC Time)	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
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         protocol / is supported         • NTP         • SNTP	Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes

• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
<ul> <li>for safety / from CSA and UL</li> </ul>	UL 60950-1, CSA C22.2 No. 60950-1
certificate of suitability	
<ul> <li>EC Declaration of Conformity</li> </ul>	Yes
CE marking	Yes
C-Tick	Yes
<ul> <li>E1 approval</li> </ul>	Yes
<ul> <li>railway application in accordance with EN 50155</li> </ul>	Yes
<ul> <li>railway application in accordance with EN 50121-4</li> </ul>	Yes
<ul> <li>fire protection in accordance with EN 45545-2</li> </ul>	Yes
NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	No
<ul> <li>Power-over-Ethernet according IEEE802.3at for</li> </ul>	Yes
<ul> <li>Power-over-Ethernet according to IEEE802.3at for</li> </ul>	Yes
type 2	100
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 classification	-
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	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
<ul> <li>Royal Institution of Naval Architects (RINA)</li> </ul>	Yes
standards, specifications, approvals / hazardous environn	
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
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links	
Internet-Link	
to website: TIA Selection Tool	http://www.siemens.com/tia-selection-tool
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	http://www.siemens.com/tia-selection-tool
• to the website: IWLAN	http://www.siemens.com/iwlan
	https://mall.industry.siemens.com
to website: Industry Mall     to website: Information and Dewalaad Center	
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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