## SIEMENS

## Data sheet

product type designation

## 6GK5788-1GD00-0AA0

produot type designation	
	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	
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	
<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
<ul> <li>for power supply</li> </ul>	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	Yes
directly on device	
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
• from Power-over-Ethernet according to IEEE802.3at for type 2	50 V
<ul> <li>at DC / at 24 V / typical</li> </ul>	0.45 A

W788-1 M12

- with Dower over Ethernet according to IEEE002 2-4	0.00 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	
<ul> <li>from M12 Power Connector (A-coded) for redundant</li> </ul>	19.2 V
power supply	
supply voltage / 2	20.0.1/
<ul> <li>from M12 Power Connector (A-coded) for redundant power supply</li> </ul>	28.8 V
ambient conditions	
ambient temperature	
during operation	-20 +60 °C
during storage	-40 +85 °C
<ul> <li>during transport</li> </ul>	-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
	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
S7-1500 rail mounting	Yes
35 mm top hat DIN rail mounting	Yes
<ul> <li>wall mounting</li> </ul>	Yes
-	
radio frequencies	
radio frequencies operating frequency	
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band	2.41 2.48 GHz; depending on the country approvals
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band	<ul><li>2.41 2.48 GHz; depending on the country approvals</li><li>4.9 5.8 GHz; depending on the country approvals</li></ul>
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	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general
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	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general
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	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general Yes Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general Yes Yes
radio frequencies         operating frequency         • for WLAN in 2.4 GHz frequency band         • for WLAN in 5 GHz frequency band         product features, product functions, product components         product function / Access Point Mode         product function / client Mode         number of SSIDs         product function	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals 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-
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         number of SSIDs         product function         • iPCF Access Point         • iPCF client	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / 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'
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         number of SSIDs         product function         • iPCF Access Point         • iPCF client         • iPCF-MC Access Point	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / 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
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         number of SSIDs         product function         • iPCF Access Point         • iPCF client	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / 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-
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         number of SSIDs         product function         • iPCF Access Point         • iPCF client         • iPCF-MC Access Point         • iPCF-MC client	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / 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'
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         number of SSIDs         product function         • iPCF Access Point         • iPCF client         • iPCF-MC Access Point         • iPCF-MC client         • iPCF-MC client	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / 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
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         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	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals <b>/ general</b> 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'
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         number of SSIDs         product function         • iPCF Access Point         • iPCF client         • iPCF-MC Access Point         • iPCF-MC client         • iPCF-MC client	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / 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
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         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	<ul> <li>2.41 2.48 GHz; depending on the country approvals</li> <li>4.9 5.8 GHz; depending on the country approvals</li> <li>/ general</li> <li>Yes</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>No</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>
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         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	<ul> <li>2.41 2.48 GHz; depending on the country approvals</li> <li>4.9 5.8 GHz; depending on the country approvals</li> <li>/ general</li> <li>Yes</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>No</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>
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         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	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / 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' only 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
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         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	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / 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' only 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
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         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 / iPRP	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals <b>/ general</b> 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' only 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
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         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         iPRP         product function         product function         product function         product function	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals 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' only 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 1 Yes
radio frequencies         operating frequency         • for WLAN in 2.4 GHz frequency band         • for WLAN in 5 GHz frequency band         product features, product functions, product components         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         product function         0 CLI         • web-based management	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals <b>/ general</b> 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 <b>ng</b> 8 Yes
radio frequencies         operating frequency         • for WLAN in 2.4 GHz frequency band         • for WLAN in 5 GHz frequency band         product features, product functions, product components         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 / iPRP         product function         • CLI         • web-based management         • MIB support	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / 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' only ng 8 Yes Yes
radio frequencies         operating frequency         • for WLAN in 2.4 GHz frequency band         • for WLAN in 5 GHz frequency band         product features, product functions, product components         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         • CLI         • web-based management         • MIB support         • TRAPs via email         • configuration with STEP 7         • configuration with STEP 7 in the TIA Portal	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / 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' only ng 8 Yes Yes Yes Yes
radio frequencies         operating frequency         • for WLAN in 2.4 GHz frequency band         • for WLAN in 5 GHz frequency band         product features, product functions, product components         product function / Access Point Mode         product function / Access Point 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         • TRAPs via email         • configuration with STEP 7         • configuration with STEP 7 in the TIA Portal         • operation with IWLAN controller	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals <b>/ general</b> 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' only <b>ng</b> 8 Yes Yes Yes Yes
radio frequencies         operating frequency         • for WLAN in 2.4 GHz frequency band         • for WLAN in 5 GHz frequency band         product features, product functions, product components         product function / Access Point Mode         product function / client 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         • CL1         • web-based management         • MIB support         • TRAPs via email         • configuration with STEP 7         • configuration with STEP 7 in the TIA Portal         • operation with IWLAN controller         • operation with Enterasys WLAN controller	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / 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' only res; In combination with the 'KEY-PLUG W780 iFeatures' only 9 8 Yes Yes Yes Yes Yes No No
radio frequencies         operating frequency         • for WLAN in 2.4 GHz frequency band         • for WLAN in 5 GHz frequency band         product features, product functions, product components         product function / Access Point Mode         product function / Access Point 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         • TRAPs via email         • configuration with STEP 7         • configuration with STEP 7 in the TIA Portal         • operation with IWLAN controller	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals <b>/ general</b> 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' only <b>ng</b> 8 Yes Yes Yes Yes Yes Yes Yes No

• 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
<ul> <li>link check</li> </ul>	No
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>	Voc
	Yes
product functions / DHCP	
product function	
DHCP client	Yes
DHCP server	Yes
DHCP Option 82	Yes
product functions / redundancy	
protocol / is supported	
• STP/RSTP	Yes
• MSTP	Yes
• RSTP	Yes
product functions / security	
product functions / security product function	
	Yes
product function • ACL - MAC-based	Yes Yes
product function <ul> <li>ACL - MAC-based</li> <li>management security, ACL-IP based</li> </ul>	
product function • ACL - MAC-based	Yes
product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT	Yes Yes
product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i	Yes Yes No
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 No Yes
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
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
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 No Yes Yes Yes
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
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 No Yes Yes Yes
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 No Yes Yes Yes Yes
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 No Yes Yes Yes Yes
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 • SNTP	Yes Yes No Yes Yes Yes Yes
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 • SIMATIC time synchronization (SIMATIC Time)	Yes Yes No Yes Yes Yes Yes
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 • SIMATIC time synchronization (SIMATIC Time) Standards, specifications, approvals	Yes Yes No Yes Yes Yes Yes
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 • SIMATIC time synchronization (SIMATIC Time) Standards, specifications, approvals certificate of suitability	Yes Yes No Yes Yes Yes Yes
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 • SIMATIC time synchronization (SIMATIC Time) Standards, specifications, approvals certificate of suitability • EC Declaration of Conformity	Yes Yes No Yes Yes Yes Yes
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 • SIMATIC time synchronization (SIMATIC Time) Standards, specifications, approvals certificate of suitability	Yes Yes Yes Yes Yes Yes Yes Yes
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 • SIMATIC time synchronization (SIMATIC Time) Standards, specifications, approvals certificate of suitability • EC Declaration of Conformity	Yes No Yes Yes Yes Yes Yes Yes Yes Yes
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 • SIMATIC time synchronization (SIMATIC Time) Standards, specifications, approvals certificate of suitability • EC Declaration of Conformity • CE marking	Yes Yes No Yes Yes Yes Yes Yes Yes Yes
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 • SIMATIC time synchronization (SIMATIC Time) Standards, specifications, approvals certificate of suitability • EC Declaration of Conformity • CE marking • C-Tick	Yes No Yes Yes Yes Yes Yes Yes Yes
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 • SIMATIC time synchronization (SIMATIC Time) standards, specifications, approvals certificate of suitability • EC Declaration of Conformity • CE marking • C-Tick • E1 approval	Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes 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 type 1 and IEEE802.3af</li> </ul>	Yes
<ul> <li>Power-over-Ethernet according to IEEE802.3at for</li> </ul>	Yes
type 2 standard for wireless communication	
IEEE 802.11a	Yes
	Yes
• IEEE 802.11b	
• 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	n
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
	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	Yes
	Yes
Polski Rejestr Statkow (PRS)	
<ul> <li>Royal Institution of Naval Architects (RINA)</li> </ul>	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
certificate of suitability / CCC / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	ATEX 0145X
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links	ATEX 0145X
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link	ATEX 0145X Yes
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link • to website: TIA Selection Tool	ATEX 0145X Yes http://www.siemens.com/tia-selection-tool
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool	ATEX 0145X Yes http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN	ATEX 0145X Yes http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall	ATEX 0145X Yes http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall • to website: Information and Download Center	ATEX 0145X Yes http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall • to website: Information and Download Center • to website: Image database	ATEX 0145X Yes http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: INULAN • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager	ATEX 0145X Yes http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall • to website: Information and Download Center • to website: Image database	ATEX 0145X Yes http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: INULAN • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager	ATEX 0145X Yes http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support	ATEX 0145X Yes http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax