SIEMENS

Data sheet

6GK5788-2GD00-0TB0

Product type designation



SCALANCE W788-2 M12 EEC

IWLAN Access Point, SCALANCE W788-2 M12 EEC USA, 2 radios, 6 N-CON antenna port, iFeatures support via key plug, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbit/s per radio, 1x M12 max. 1 Gbit/s, PoE, redundant 24 V DC, M12 A-coded IP65, -40...+70 °C, plug slot WPA2/802.11i/e,conformal coating EN 50155, EN 45545, observe national approvals! CERT ID: RAPN-W2-M12-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: Manuals on CD-ROM, German/English, M12 sealing caps, only for operation in USA

Transmission 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

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	M12 interface (8-pole, X-coded), PoE
• for power supply	M12 interface (4-pole, A-coded)
design of the removable storage	
• C-PLUG	Yes

maximum

Interfaces / wireless Number of radio cards / permanently installed 2 Transmission mode / for multiple input multiple output (MIMO) Number of spatial streams 3 Number of electrical connections / for external antenna(s) Type of electrical connection / for external antenna (s) Type of electrical connection / for external antenna (s) Product feature / external antenna can be mounted directly on device Supply voltage, current consumption, power loss Type of voltage / of the supply voltage Supply voltage / of the supply voltage Supply voltage / of the supply voltage Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet acc. to IEEE802.3at for type 2 Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss IW] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss IW] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss IW] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss IW] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with power-over-Ethernet according to IEEE802.3at for type 3 and IEEE802.3af / typical • with power-over-Ethernet according to IEEE802.3at for type 3 and IEEE802.3af / typical • with power-over-Ethernet according to IEEE802.3at for type 3 and IEEE802.3af / typical • with power-over-Ethernet according to IEEE802.3	• KEY-PLUG	Yes
Transmission mode / for multiple input multiple output (MIMO) Number of spatial streams Number of electrical connections / for external antenna(s) Type of electrical connection / for external antenna(s) Product feature / external antenna can be mounted directly on device Supply voltage / of the supply voltage Supply voltage / of the supply vo	Interfaces / wireless	
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Number of electrical connections / for external antenna(s) Type of electrical connection / for external antenna(s) Product feature / external antenna can be mounted directly on device Supply voltage, current consumption, power loss Type of voltage / of the supply voltage Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3at for type 2 Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical		3x3
artenna(s) Type of electrical connection / for external antenna(s) Product feature / external antenna can be mounted directly on device Supply voltage, current consumption, power loss Type of voltage / of the supply voltage Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 3 • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3at for type 2 and IEEE802.3at for type 2 and IEEE802.3at for type 1 and IEEE802.3at / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical Permitted ambient conditions Ambient temperature • during operation • during storage • during tarsport Relative humidity / at 25 °C / without condensation / Relative humidity / at 25 °C / without condensation /	Number of spatial streams	3
Product feature / external antenna can be mounted directly on device Supply vollage, current consumption, power loss Type of voltage / of the supply voltage Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3at for type 2 Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical		6
directly on device Supply voltage, current consumption, power loss Type of voltage / of the supply voltage Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage 4 • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af (bright power cover-Ethernet acc. to IEEE802.3at for type 2 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3af (bright power-over-Ethernet according to IEEE802.3af (bright power-over-Ethernet according to IEEE802.3af for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af (bright power-over-Ethernet according to IEEE802.3af for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 3 and IEEE802.3af for type 4 and IEEE802.3af for type 4 and IEEE802.3af for type 5 and IEEE802.3af for type 6 and IEEE802.3af for type 7 and IEEE802.3af for type 8 and IEEE802.3	Type of electrical connection / for external antenna(s)	N-Connect (socket)
Type of voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet acc. to IEEE802.3at for type 2 Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IS W • with Power-over-Ethernet according to IS W • with Power-over-Ethernet according to IS W IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IS W IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IS W IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IS W IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IS W IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IS W IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IS W IEEE802.3at for type 2 / typical		Yes
Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet acc. to IEEE802.3at for type 2 Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IS W IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IS W IEEE802.3at for type 2 / typical	Supply voltage, current consumption, power loss	
• from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3at for type 2 Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Permitted ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / Relative humidity / at 25 °C / without condensation /	Type of voltage / of the supply voltage	DC
redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet acc. to IEEE802.3at for type 2 Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af / typical • with Power-over-Ethernet according to ID.7 W IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to ID.7 W IEEE802.3at for type 2 / typical Permitted ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / Relative humidity / at 25 °C / without condensation /	Supply voltage / 1	
• from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3at for type 2 Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical • with Power-over-Ethernet according to IEEE802.3af for type 2 / typical		19.2 V
redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet acc. to IEEE802.3at for type 2 Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Permitted ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / 100 %	Supply voltage / 2	
• from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet acc. to IEEE802.3at for type 2 Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Permitted ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / 100 %		28.8 V
for type 1 and IEEE802.3af • from Power-over-Ethernet acc. to IEEE802.3at for type 2 Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Permitted ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / Relative humidity / at 25 °C / without condensation / 100 %	Supply voltage	
For type 2 Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3at / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Permitted ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / Relative humidity / at 25 °C / without condensation /		48 V
at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Permitted ambient conditions Ambient temperature during operation during storage during transport Relative humidity / at 25 °C / without condensation / 100 %		50 V
with Power-over-Ethernet according to IEEE802.3af / typical with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Power loss [W] at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Permitted ambient conditions Ambient temperature during operation during storage during transport Relative humidity / at 25 °C / without condensation / 100 %	Consumed current	
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IEEE802.3at for type 2 / typical Power loss [W]	_	0.22 A
 at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Permitted ambient conditions Ambient temperature during operation during storage during transport Relative humidity / at 25 °C / without condensation / 15 W 10.7 W 10.7 W 15 W 15 W 16 W 16 W 16 W 16 W 16 W 16 W 17 W 16 W 18 S °C 40 +85 °C 18 S °C 40 +85 °C 100 % 100 % 100 % 100 % 	_	0.3 A
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Permitted ambient conditions Ambient temperature during operation during storage during transport Relative humidity / at 25 °C / without condensation / 10.7 W 15 W 15 W 15 W 15 W 16 W 16 W 17 W 18 W 18 W 18 W 19 W 10 W 1	Power loss [W]	
IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 2 / typical Permitted ambient conditions Ambient temperature • during operation • during storage • during transport Auding transport Relative humidity / at 25 °C / without condensation / 15 W 15 W 15 W 16 W 17 W 18 W 18 W 19 W 19 W 10 W 10 W 10 W	• at DC / at 24 V / typical	15 W
Permitted ambient conditions Ambient temperature • during operation • during storage • during transport Adding transport -40 +85 °C -40 +85 °C -40 +85 °C -40 +85 °C	_	10.7 W
Ambient temperature • during operation • during storage • during transport -40 +85 °C • during transport -40 +85 °C Relative humidity / at 25 °C / without condensation / 100 %	_	15 W
 during operation during storage during transport H85 °C during transport H85 °C H85 °C Relative humidity / at 25 °C / without condensation / H00 % 	Permitted ambient conditions	
 during storage during transport 40 +85 °C during transport -40 +85 °C Relative humidity / at 25 °C / without condensation / 100 % 	Ambient temperature	
● during transport Relative humidity / at 25 °C / without condensation / 100 %	during operation	-40 +74 °C
Relative humidity / at 25 °C / without condensation / 100 %	during storage	-40 +85 °C
	during transport	-40 +85 °C
		100 %

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 weight	
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
Product feature / conformal coating	Yes
Mounting type	For 35 mm DIN rail mounting an additional mounting adapter is required
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes

Wireless frequencies

Operating frequency

for WLAN in 2.4 GHz frequency band
 for WLAN in 5 GHz frequency band
 4.9 ... 5.8 GHz

Product properties, functions, components / genera	
Product function / Access Point Mode	Yes
Product function / Client Mode	Yes
Number of SSIDs	16
Product function	
• iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
• iPCF-MC Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF-MC client	Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
Number of iPCF-capable radio modules	0
Product function / iREF	No; In combination only with 'KEY-PLUG W780 iFeatures'
Number of iREF-capable radio modules	0
Product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only

Product functions / management, configuration	
Number of manageable IP addresses / in client	8
Product function	
• 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
 operation with IWLAN controller 	No
 operation with Enterasys WLAN controller 	No
 forced roaming on IP down with IWLAN 	Yes
 forced roaming on link down with IWLAN 	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	
• I&M0 - device-specific information	Yes
 I&M1 – higher-level designation/location 	Yes
designation	
Product functions / Diagnosis	
Product function	
1 Todast Idilotton	
PROFINET IO diagnosis	Yes
	Yes No
• PROFINET IO diagnosis	
PROFINET IO diagnosisLink Check	No
PROFINET IO diagnosisLink Checkconnection monitoring IP-Alive	No No
 PROFINET IO diagnosis Link Check connection monitoring IP-Alive localization via Aeroscout 	No No Yes
 PROFINET IO diagnosis Link Check connection monitoring IP-Alive localization via Aeroscout SysLog 	No No Yes
 PROFINET IO diagnosis Link Check connection monitoring IP-Alive localization via Aeroscout SysLog Protocol / is supported	No No Yes Yes
 PROFINET IO diagnosis Link Check connection monitoring IP-Alive localization via Aeroscout SysLog Protocol / is supported SNMP v1 	No No Yes Yes
 PROFINET IO diagnosis Link Check connection monitoring IP-Alive localization via Aeroscout SysLog Protocol / is supported SNMP v1 SNMP v2 	No No Yes Yes Yes
 PROFINET IO diagnosis Link Check connection monitoring IP-Alive localization via Aeroscout SysLog Protocol / is supported SNMP v1 SNMP v2 SNMP v3 	No No Yes Yes Yes
 PROFINET IO diagnosis Link Check connection monitoring IP-Alive localization via Aeroscout SysLog Protocol / is supported SNMP v1 SNMP v2 SNMP v3 Product functions / VLAN 	No No Yes Yes Yes
 PROFINET IO diagnosis Link Check connection monitoring IP-Alive localization via Aeroscout SysLog Protocol / is supported SNMP v1 SNMP v2 SNMP v3 Product functions / VLAN Product function 	No No Yes Yes Yes Yes Yes
 PROFINET IO diagnosis Link Check connection monitoring IP-Alive localization via Aeroscout SysLog Protocol / is supported SNMP v1 SNMP v2 SNMP v3 Product functions / VLAN Product function function VLAN with IWLAN 	No No Yes Yes Yes Yes Yes
 PROFINET IO diagnosis Link Check connection monitoring IP-Alive localization via Aeroscout SysLog Protocol / is supported SNMP v1 SNMP v2 SNMP v3 Product functions / VLAN Product function function VLAN with IWLAN Product functions / DHCP 	No No Yes Yes Yes Yes Yes
 PROFINET IO diagnosis Link Check connection monitoring IP-Alive localization via Aeroscout SysLog Protocol / is supported SNMP v1 SNMP v2 SNMP v3 Product functions / VLAN Product function function VLAN with IWLAN Product functions / DHCP Product function 	No No Yes Yes Yes Yes Yes Yes
PROFINET IO diagnosis Link Check connection monitoring IP-Alive localization via Aeroscout SysLog Protocol / is supported SNMP v1 SNMP v2 SNMP v3 Product functions / VLAN Product function function VLAN with IWLAN Product function DHCP client	No No Yes Yes Yes Yes Yes Yes Yes

Product functions / Redundancy	
Protocol / is supported	
• STP/RSTP	Yes
• MSTP	Yes
• RSTP	Yes
Product functions / Security	
Product function	
ACL - MAC-based	Yes
 Management security, ACL-IP based 	Yes
• IEEE 802.1x (radius)	Yes
• NAT/NAPT	Yes
 access protection according to IEEE802.11i 	Yes
WPA/WPA2	Yes
• TKIP/AES	Yes
Protocol / is supported	
• SSH	Yes
• RADIUS	Yes
Product functions / Time	
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
SIMATIC time synchronization (SIMATIC Time)	Yes
Standards, specifications, approvals	
Standard	FM 2044, Olace I Division O Oracon A D O D TA / Olace A Tarre
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA
Tot Hazardous zone	07 ATEX 0145X
for safety / from CSA and UL	UL 60950-1 CSA C22.2 No. 60950-1
• for hazardous zone / 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	
 EC declaration of conformity 	Yes
CE marking	Yes
• C-Tick	Yes
● E1 approval	Yes
 Railway application in accordance with EN 50155 	Yes
 Railway application in accordance with EN 50121-4 	Yes
• Fire protection in accordance with EN 45545-2	Yes

A NEMA TOO	Yes
● NEMA TS2	
• 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
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
Bureau Veritas (BV)	Yes
• DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
Polski Rejestr Statkow (PRS)	Yes
 Royal Institution of Naval Architects (RINA) 	Yes

Further Information / Internet Links

Internet-Link

• to website: 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. Thirdparty 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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