SIEMENS

Data sheet

6GK5788-2GD00-0AB0

product type designation



W788-2 M12 (USA)

IWLAN Access Point, SCALANCE W788-2 M12, 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, -20..+60 °C, plug slot, WPA2/802.11i/e, 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 the USA.

transfer rate with WLAN / maximum for Industrial Ethernet innimum maximum 100 Mbit/s 110 Mbit	transfer rate	
• for Industrial Ethernet transfer rate / for Industrial Ethernet • minimum • maximum • maximum • mount of electrical connections • for network components or terminal equipment • for power supply • for redundant voltage supply • for network components or terminal equipment • for power supply • for network components or terminal equipment • for power supply • for network components or terminal equipment • for power supply • for power supply • for power supply • for power supply • KEY-PLUG • Yes • Connect (socket) • yes **Connect (socket) • yes **Upply voltage • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3at for type 2 • from Power-over-Ethernet according to IEEE802.3at for type 2	transfer rate	
transfer rate / for Industrial Ethernet	with WLAN / maximum	450 Mbit/s
minimum maximum mumber of electrical connections for network components or terminal equipment for power supply for redundant voltage supply for network components or terminal equipment for power supply full interface (8-pole, X-coded), PoE for power supply full interface (4-pole, A-coded) M12 interface (4-pole, A-coded) M2 interface (4-pole, A-coded) M32 interface (4-pole, A-coded) M33 interfaces / wireless memory M34 interface (4-pole, A-coded) M35 interface (4-pole, A-coded) M36 interface (4-pole, A-coded) M37 interface (4-pole, A-coded) M38 interface (4-pole, A-coded) M38 interface (4-pole, A-coded) M39 interface (4-pole, A-coded) M30 interface (4-pole, A-coded) M31 interface (8-pole, X-coded), PoE M32 interface (8-pole, X-coded), PoE M32 interface (8-pole, X-coded), PoE M32 interface (8-pole, X-coded) M32 interface (8-pole, X-	 for Industrial Ethernet 	10, 100, 1000 Mbit/s
• maximum 1000 Mbit/s Interfaces number of electrical connections • for network components or terminal equipment • for power supply • for redundant voltage supply 1 type of electrical connection • for network components or terminal equipment • for network components or terminal equipment • for network components or terminal equipment • for power supply design of the removable storage • C-PLUG • KEY-PLUG * Yes * KEY-PLUG * Yes * KEY-PLUG * Yes * (C-PLUG • (C-PLUG	transfer rate / for Industrial Ethernet	
Interfaces number of electrical connections • for network components or terminal equipment • for power supply • for redundant voltage supply 1 type of electrical connection • for network components or terminal equipment • for power supply design of the removable storage • C-PLUG KEY-PLUG * Yes • KEY-PLUG * Yes • KEY-PLUG * Yes • KEY-PLUG Interface / 4-pole, A-coded) * Yes • C-PLUG • Yes • KEY-PLUG * Yes • KEY-PLUG * Yes • KEY-PLUG * Yes • Maliant of acidic cards / permanently installed 2 transmission mode / for multiple input multiple output (MIMO) • number of spatial streams number 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 • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet according to IEEE802.3at for type 2 • for type 2	• minimum	10 Mbit/s
number of electrical connections • for network components or terminal equipment • for power supply • for redundant voltage supply 1 type of electrical connection • for network components or terminal equipment • for power supply design of the removable storage • C-PLUG • KEY-PLUG * Yes • KEY-PLUG * Yes • C-PLUG • KEY-PLUG * Yes • KEY-PLUG * Yes • KEY-PLUG * Yes • KEY-PLUG * Yes • C-PLUG • Nes • C-PLUG • Nes • Nes • C-PLUG • Nes • Or electrical connection / for external antenna(s) type of electrical connection / for external antenna(s) N-Connect (socket) * Yes * Supply voltage, current consumption, power loss type of voltage / of the supply voltage • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet according to IEEE802.3at for type 2	• maximum	1000 Mbit/s
• for network components or terminal equipment • for power supply • for redundant voltage supply type of electrical connection • for network components or terminal equipment • for power supply design of the removable storage • C-P-LUG • KEY-P-LUG • Yes • C-P-LUG • Yes • KEY-P-LUG • Yes • KEY-P-LUG • Yes Interfaces / wireless number of radio cards / permanently installed 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) type of electrical connection / for external antenna(s) type of electrical connection / for external antenna(s) type of voltage, current consumption, power loss type of voltage / of the supply voltage • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet according to IEEE802.3at for type 2 50 V	interfaces	
• for power supply • for redundant voltage supply type of electrical connection • for network components or terminal equipment • for power supply design of the removable storage • C-PLUG • KEY-PLUG memory design of the removable storage • C-PLUG • KEY-PLUG * Yes • KEY-PLUG * Yes • KEY-PLUG * Yes • KEY-PLUG * Yes • Interfaces / wireless number of radio cards / permanently installed transmission mode / for multiple input multiple output (MIMO) number of spatial streams number 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 • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet according to IEEE802.3at for type 2 **M12 interface (8-pole, X-coded), POE **M2 interface (8-pole, X-coded) **Yes **M3 interface (8-pole, X-coded) **Yes **M2 interface (8-pole, X-coded) **M2 interface (8-pole, X-coded) **M2 interface (4-pole, A-coded) **M2 interface (8-pole, X-coded) **M2 interface (8-pole, X-coded) **M2 interface (4-pole, A-coded) **M3 interface (4-pole, A-coded) **M3 interface (4-pole, A-coded) **M3 interface (4-pole, A-coded) **M3 interface (4	number of electrical connections	
type of electrical connection of ror network components or terminal equipment of ror petwork components or terminal equipment of ror power supply design of the removable storage of C-PLUG of KEY-PLUG design of the removable storage of C-PLUG of KEY-PLUG res memory design of the removable storage of C-PLUG of KEY-PLUG res memory design of the removable storage of C-PLUG of KEY-PLUG of KEY-PL	 for network components or terminal equipment 	1
type of electrical connection • for network components or terminal equipment • for power supply design of the removable storage • C-PLUG • KEY-PLUG * Yes • KEY-PLUG * Yes • C-PLUG • Yes • KEY-PLUG * Yes • LET A CONTROLL STORAGE • LET A CONTROLL STORAGE * Interfaces / wireless * number of radio cards / permanently installed 2 transmission mode / for multiple input multiple output (MIMO) * number of spatial streams * number of spatial streams * number of electrical connections / for external antenna(s) * type of electrical connection / for external antenna(s) * type of electrical connection / for external antenna(s) * type of electrical connection / for external antenna (s) * type of voltage, current consumption, power loss * type of voltage / of the supply voltage • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet according to IEEE802.3at for type 2 * 50 V	for power supply	1
for network components or terminal equipment for power supply design of the removable storage C-PLUG KEY-PLUG memory design of the removable storage C-PLUG Yes interfaces / wireless number of radio cards / permanently installed transmission mode / for multiple input multiple output (MIMO) number of spatial streams 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, current consumption, power loss type of voltage / of the supply voltage of mor Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af of mor Power-over-Ethernet according to IEEE802.3at for type 2 M12 interface (4-pole, A-coded) Yes 1	 for redundant voltage supply 	1
for power supply design of the removable storage C-PLUG KEY-PLUG Yes KEY-PLUG Yes KEY-PLUG Yes KEY-PLUG Yes C-PLUG Yes KEY-PLUG Yes KEY-PLUG Yes KEY-PLUG Yes KEY-PLUG Yes KEY-PLUG Yes Interfaces / wireless number of radio cards / permanently installed 2 transmission mode / for multiple input multiple output (MIMO) number of spatial streams anumber of spatial streams anumber 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	type of electrical connection	
design of the removable storage • C-PLUG • KEY-PLUG res memory design of the removable storage • C-PLUG • KEY-PLUG Yes • C-PLUG • KEY-PLUG Yes 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 • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet according to IEEE802.3at for type 2 50 V	 for network components or terminal equipment 	M12 interface (8-pole, X-coded), PoE
C-PLUG KEY-PLUG Yes memory design of the removable storage C-PLUG KEY-PLUG Yes MEY-PLUG Yes interfaces / wireless number of radio cards / permanently installed 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) N-Connect (socket) product feature / external antenna can be mounted directly on device supply voltage, current consumption, power loss type of voltage / of the supply voltage • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet according to IEEE802.3at for type 2 September 2 Ves Ves 188 V 189 V 180 V	for power supply	M12 interface (4-pole, A-coded)
■ KEY-PLUG	design of the removable storage	
design of the removable storage • C-PLUG • KEY-PLUG interfaces / wireless number of radio cards / permanently installed 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) N-Connect (socket) product feature / external antenna can be mounted directly on device supply voltage, current consumption, power loss type of voltage / of the supply voltage • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet according to IEEE802.3at for type 2	• C-PLUG	Yes
design of the removable storage • C-PLUG • KEY-PLUG interfaces / wireless number of radio cards / permanently installed 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, current consumption, power loss type of voltage / of the supply voltage • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet according to IEEE802.3at for type 2 Yes Yes 3x3 N-Connect (socket) Yes DC Supply voltage / of the supply voltage • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet according to IEEE802.3at for type 2	• KEY-PLUG	Yes
C-PLUG KEY-PLUG Yes 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) product feature / external antenna can be mounted directly on device supply voltage, current consumption, power loss type of voltage / of the supply voltage of from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af of roype 2 Type of voltage / of the supply voltage of from Power-over-Ethernet according to IEEE802.3at for type 2	memory	
interfaces / wireless number of radio cards / permanently installed 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, current consumption, power loss type of voltage / of the supply voltage of from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af of from Power-over-Ethernet according to IEEE802.3at for type 2 Yes To Ves To	design of the removable storage	
number of radio cards / permanently installed 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, current consumption, power loss type of voltage / of the supply voltage of rom Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af of rom Power-over-Ethernet according to IEEE802.3at for type 2 interfaces / wireless 3 N-Connect (socket) Yes DC Supply voltage of rom Power-over-Ethernet according to IEEE802.3at for type 2	• C-PLUG	Yes
number of radio cards / permanently installed 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, current consumption, power loss type of voltage / of the supply voltage of from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af of from Power-over-Ethernet according to IEEE802.3at for type 2 DC	• 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, current consumption, power loss type of voltage / of the supply voltage of from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af of from Power-over-Ethernet according to IEEE802.3at for type 2 system of type 2 3x3 N-Connect (socket) Yes DC Supply voltage DC 48 V	interfaces / wireless	
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, current consumption, power loss type of voltage / of the supply voltage of from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af of from Power-over-Ethernet according to IEEE802.3at for type 2 DV SUPPLIES	number of radio cards / permanently installed	2
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 of rom Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af of rom Power-over-Ethernet according to IEEE802.3at for type 2		3x3
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 of rom Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af of rom Power-over-Ethernet according to IEEE802.3at for type 2 DC SUPPLY NOTE: N-Connect (socket) Yes DC SUPPLY NOTE: 48 V 50 V	number of spatial streams	3
product feature / external antenna can be mounted directly on device supply voltage, current consumption, power loss type of voltage / of the supply voltage of rom Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af of rom Power-over-Ethernet according to IEEE802.3at for type 2 DC supply voltage of rom Power-over-Ethernet according to IEEE802.3at for type 2	number of electrical connections / for external antenna(s)	6
directly on device supply voltage, current consumption, power loss type of voltage / of the supply voltage of rom Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af of rom Power-over-Ethernet according to IEEE802.3at for type 2	type of electrical connection / for external antenna(s)	N-Connect (socket)
type of voltage / of the supply voltage supply voltage from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af from Power-over-Ethernet according to IEEE802.3at for type 2	· ·	Yes
supply voltage • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet according to IEEE802.3at for type 2 50 V	supply voltage, current consumption, power loss	
 from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af from Power-over-Ethernet according to IEEE802.3at for type 2 	type of voltage / of the supply voltage	DC
for type 1 and IEEE802.3af ● from Power-over-Ethernet according to IEEE802.3at for type 2 50 V	supply voltage	
for type 2		48 V
consumed current		50 V
	consumed current	

• at DC / at 24 V / typical	0.63 A
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	0.22 A
with Power-over-Ethernet according to IEEE802.3at	0.3 A
for type 2 / typical	0.071
power loss [W]	
at DC / at 24 V / typical	15 W
 with Power-over-Ethernet according to IEEE802.3at 	10.7 W
for type 1 and IEEE802.3af / typical	
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	15 W
supply voltage / 1	
• from M12 Power Connector (A-coded) for redundant	19.2 V
power supply	
supply voltage / 2	
• from M12 Power Connector (A-coded) for redundant	28.8 V
power supply	
ambient conditions	
ambient temperature	00
during operation	-20 +60 °C
during storage	-40 +85 °C
during transport Appletive by midital / at 25 °C / without condensation / during	-40 +85 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	90 %
ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE
,	W788-x or W748-x product must be installed in an enclosure. To comply
	with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.
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
S7-300 rail mounting	Yes
S7-1500 rail mounting	Yes
35 mm top hat DIN rail mounting	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
 for WLAN in 5 GHz frequency band 	4.9 5.8 GHz; depending on the country approvals
product features, product functions, product components	/ general
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 W780 iFeatures'
• iPCF-MC Access Point	PLUG W740 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
iPCF-MC client	Yes; Only in combination with the KEY-PLUG W780 iFeatures Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-
• IF OI -IVIO CIICIIL	PLUG W740 iFeatures'
number of iPCF-capable radio modules	2
product function / iREF	No; In combination only with 'KEY-PLUG W780 iFeatures'
number of iREF-capable radio modules	2
product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
product functions / management, configuration, engineeri	ng
number of manageable IP addresses / in client	8
product function	
• CLI	Yes

In Mills support In TRAPs via mail Configuration with STEP 7 in the TIA Portal Configuration with STEP 7 in the TIA Portal Configuration with STEP 7 in the TIA Portal Configuration with Emerasys VLAN controller Configuration Controller Controller Controller Configuration Controller Configuration Controller Control		V
TRAPs via menal Yes configuration with STEP 7 in the TIA Portal Yes configuration with STEP 7 in the TIA Portal Yes configuration with STEP 7 in the TIA Portal Yes configuration with STEP 7 in the TIA Portal Yes configuration with STEP 7 with STEP 7 in the TIA Portal Yes configuration with Enterasy SVIAL controller No concerning on the Advances of the Ves concerning on th	web-based management	Yes
configuration with STEP 7 in the TIA Portal		
one configuration with STEP 7 in the TIA Portal operation with DEAP controller operation with Enteracys WLAN controller forced roaming on In P down with IWLAN forced roaming on In P down with IWLAN ves forced roaming on In P down with IWLAN ves vorced roaming on In P down with IWLAN ves vorced roaming on In P down with IWLAN ves ves protocol / is supported Address Resolution Protocol (ARP) *CIAIP *CIA		
operation with Enterasys WILAN controller of forced roaming on IP down with IWLAN of forced roaming on II in Many with IWLAN of forced roaming on II in Many with IWLAN of forced roaming on II in Many with IWLAN protocol / is supported Address Resolution Protocol (ARP) olange of the Many of the M		
• forced roaming on IP down with IWLAN • forced roaming on link down with IWLAN • WDS Protocol' // supported • Address Resolution Protocol (ARP) • CICMP • Address Resolution Protocol (ARP) • Teinet • Address Resolution Protocol (ARP) • Teinet •		
• forced roaming on link down with IWLAN • Was • WOS protocol / is supported • Address Resolution Protocol (ARP) • Teinet • Address Resolution Protocol (ARP) • Teinet • ACIT STEP • TITP • HTTP • HTTPS • Yes • TITP • DCP • LLDP Identification & maintenance function • I&MO - device-specific information • I&MO - device-specific information • I&MO - device-specific information • I&MO - device-specific information designation • PROFINETI O diagnostics product functions / diagnostics product function • PROFINETI O diagnostics • PROFINETI O diagnostics • PROFINETI O diagnostics • Systag • Inix check • Son oconection monitoring IP-Alive • Iocalization via Aeroscout • Systag • Systag protocol / is supported • SMMP v1 • SNMIP v2 • SNMIP v2 • SNMIP v3 • Sumbre v4 • Sumbre v4 • Sumbre v4 • Sumbre v5 • Sumbre v5 • Sumbre v6 • Sumbre v6 • Sumbre v6 • Sumbre v7 • Ves • Sumbre v7 • Ves • Sumbre v6 • Sumbre v7 • Ves • Noth v6 • Sumbre v7 • Ves • Noth v6 • Ves • Ves • Noth v6 • Ves • Ves • Ves • Ves		
• WDS protocol // is supported • Address Resolution Protocol (ARP) • CLMP • Telnet • Telnet • Telnet • Telnet • HTTP • Yes • HTTPS • Yes • TTFP • DCP • DCP • LLDP • LLDP • Island • Island • All of device specific information • Island • Island • Island • Island • All apposition • PROFINIET IO diagnosits product function of Jagnositics product function of Jagnositics PROFINIET IO diagnositics Product function of Jagnositics Product function • Profice of Jagnositics Product function • Profice of Jagnositics Product function • Punction • Pun		
Protocol / Is supported		
		Yes
ICMP		
Telnet Yes HTTP Yes HTTPS Yes HTTPS Yes TETP Yes DCP Yes DCP Yes ULDP Yes Ves		
HTTP HTTPS HTTP HTTPS DCP LIDP Coccession & maintenance function IsMM - device-specific information IsMM - injury Ves IsMM - device-specific information Injury Ves IsMM - Ves Injury V		
HTTPS		Yes
• TFTP	• HTTP	Yes
DCP LLDP Yes LLDP Yes Identification & maintenance function IsM0 - device-specific information IsM1 - higher level designation/location designation PROFINET IO diagnosis IsM1 - higher level designation/location designation PROFINET IO diagnosis Ink check		Yes
Ichemification & maintenance function	• TFTP	Yes
Identification & maintenance function • I&MO - device-specific information • I&MO - flavice-specific information • PROFINET IO diagnosits • Image: PROFINET IO diagnosis • Image: PROFINET IO diagno	• DCP	Yes
I&MO - device-specific information	• LLDP	Yes
Product functions / diagnostics product functions PROFINET IO diagnosis Ink check In	identification & maintenance function	
product function / diagnostics product function PROFINET IO diagnosis Inik check Inik check Connection monitoring IP-Alive Iocalization via Aeroscout Syst.og Protocol / is supported SNMP v1 SNMP v2 SNMP v3 Product functions / VLAN Product function Init check DHCP client DHCP client DHCP client DHCP ofton 82 Product functions / redundancy Protocol / is supported STP/RSTP STP/RSTP STP STP RSTP Product functions / Security Product functions / redundancy Product functions / redundancy Protocol / is supported STP/RSTP STP/RSTP STP STP STP NSTP Pres Product functions / Security Product function / Security Product function / Security Product functions / Pres STP STP STP STP Pres Product functions / Security Product function / Security Pres Pres Product function / Security Pres Pres Product function / Security Pres Pre	 I&M0 - device-specific information 	Yes
product function PROFINET IO diagnosis I link check I link check Connection monitoring IP-Alive Cocalization via Aeroscout SysLog SysLog Protocol / is supported SNMP v1 SNMP v2 SNMP v3 Product functions / VLAN Product functions / VLAN Product function I public server DHCP client DHCP client DHCP client DHCP option 82 Product functions / Ves Product functions / Ves DHCP Option 82 Product function / Ves SPARSTP SRSTP Product functions / Ves ACL - MAC-based management security, ACL-IP based management security	 I&M1 – higher level designation/location designation 	Yes
	product functions / diagnostics	
Ink check connection monitoring IP-Alive connection monitoring IP-Alive connection monitoring IP-Alive SysLog yes protocol / is supported SNMP v1 SNMP v2 SNMP v3 Product functions / VLAN product function function VLAN with IWLAN product function function VLAN with IWLAN product function DHCP product function DHCP product function DHCP opion 82 Product functions / redundancy protocol / is supported STP/RSTP STP RSTP PRSTP Pes product functions / security product function ACL - MAC-based management security, ACL-IP based management securit	product function	
connection monitoring IP-Alive localization via Aeroscout SysLog SysLog protocol / is supported SNMP v1 SNMP v2 SNMP v3 SNMP v3 product functions / VLAN product function / ULAN with IWLAN product function	PROFINET IO diagnosis	Yes
• localization via Aeroscout • SysLog protocol / is supported • SMMP v1 • SMMP v2 • SMMP v2 • SMMP v3 product functions / VLAN product function • function VLAN with IWLAN product function • DHCP client • DHCP client • DHCP option 82 product functions / redundancy protocol / is supported • STP/RSTP • RSTP • RSTP Product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPAWPAP2 • TXIP/AES protocol / is supported • SSH • RADIUS • SSH • RADIUS	• link check	No
• SysLog protocol / is supported • SNMP v1	connection monitoring IP-Alive	No
protocol / is supported • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 product functions / VLAN product function VLAN with IWLAN product function • function VLAN with IWLAN Product function • DHCP client	localization via Aeroscout	Yes
Protocol / is supported Yes	SysLog	Yes
• SNMP v1 • SNMP v2 • SNMP v3 product functions / VLAN product function / DHCP product function / DHCP product function / DHCP product function (• DHCP client (• DHCP portion 82 (• DHCP Option 82 (• STP/RSTP (• MSTP (• RSTP (
• SNMP v3 product functions / VLAN product function • function VLAN with IWLAN Product functions / DHCP product function • DHCP client • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • MSTP • RSTP product functions / security product functions • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPAWPA2 • TKIP/AES protocol / is supported • SSH • RADIUS	• SNMP v1	Yes
product functions / VLAN product function	• SNMP v2	Yes
product function • function VLAN with IWLAN res product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • MSTP • RSTP product functions / security product 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	• SNMP v3	Yes
product function • function VLAN with IWLAN res product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • MSTP • RSTP product functions / security product 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 / VLAN	
product function / DHCP product function • DHCP client		
product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • MSTP • RADIUS • ACL - MAC-based • STAINAPT • ACS - STE -	function VLAN with IWLAN	Yes
product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • MSTP • RADIUS • ACL - MAC-based • STAINAPT • ACS - STE -	product functions / DHCP	
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	•	Yes
DHCP Option 82 product functions / redundancy protocol / is supported STP/RSTP MSTP MSTP RSTP Product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES Protocol / is supported SSH RADIUS Yes Yes Yes Yes Yes Yes Yes Ye		
product functions / redundancy protocol / is supported • STP/RSTP • MSTP • MSTP • RSTP product functions / security product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES protocol / is supported • SSH • RADIUS Yes Yes Yes Yes Yes Yes Yes Ye		
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 WPAWPA2 TKIP/AES Protocol / is supported SSH RADIUS	· .	
STP/RSTP MSTP RSTP Yes Product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT caccess protection according to IEEE802.11i WPA/WPA2 TKIP/AES Protocol / is supported SSH RADIUS Yes Yes Yes Yes Yes Yes Yes Ye		
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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		
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 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 		
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 NAT/NAPT access protection according to IEEE802.11i WPA/WPA2 TKIP/AES Protocol / is supported SSH RADIUS Yes Yes Yes Yes 		
 access protection according to IEEE802.11i WPA/WPA2 TKIP/AES Protocol / is supported SSH RADIUS Yes Yes Yes Yes 		
 WPA/WPA2 TKIP/AES Protocol / is supported SSH RADIUS Yes 		
● TKIP/AES protocol / is supported ● SSH ● RADIUS Yes Yes Yes		
protocol / is supported ● SSH Yes ● RADIUS Yes		
• SSH Yes • RADIUS Yes		Yes
• RADIUS Yes		
product functions / time		Yes
	product functions / time	

protocol / is supported	
• NTP	Yes
• SNTP	Yes
SIMATIC time synchronization (SIMATIC Time)	Yes
standards, specifications, approvals	
standard	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
certificate of suitability	
 EC Declaration of Conformity 	Yes
CE marking	Yes
• C-Tick	Yes
■ E1 approval	Yes
 railway application in accordance with EN 50155 	Yes
 railway application in accordance with EN 50121-4 	Yes
 fire protection in accordance with EN 45545-2 	Yes
NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	No
 Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	Yes
 Power-over-Ethernet according to IEEE802.3at for type 2 	Yes
standard for wireless communication	
● IEEE 802.11a	Yes
● IEEE 802.11b	Yes
● IEEE 802.11e	Yes
• IEEE 802.11g	Yes
• IEEE 802.11h	Yes
• IEEE 802.11i	Yes
• IEEE 802.11n	Yes
wireless approval	For operation in the USA, you will find more information under:
	www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classificatio	n
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	Yes
DNV GL	Yes
 Korean Register of Shipping (KRS) 	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
 Polski Rejestr Statkow (PRS) 	Yes
Royal Institution of Naval Architects (RINA)	Yes
standards, specifications, approvals / hazardous environr	nents
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
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• to the website: IWLAN	http://www.siemens.com/iwlan
to website: Industry Mall	https://mall.industry.siemens.com
to website: Information and Download Center	http://www.siemens.com/industry/infocenter
to website: Image database	http://automation.siemens.com/bilddb
to website: CAx-Download-Manager	http://www.siemens.com/cax

• to website: Industry Online Support

https://support.industry.siemens.com

security information

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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)

last modified:

1/21/2021