SIEMENS

Data sheet

6GK5788-2GY01-0TA0



W1788-2 M12 EEC

IWLAN access point, SCALANCE W1788-2 M12 EEC, 2 radios, 8 N-CON antennas iFeatures support via CLP, IEEE 802.11 a/b/g/h/n/ac, 2.4/5GHz, gross 1733 Mbit/s per radio, 2x M12 max. 1 Gbit/s, PoE, redundant 24 V DC,M12 Acoded IP65, -40..+75 °C, CLP slot, WPA2/802.11i/e,conformal coating EN 50155, EN 45545, observe national approvals! CERT ID: RAPAC-W2-M12-E4, includes: MPCIE-R1-ABGNAC-U4, scope of delivery: M12 sealing caps, for operation outside of USA/Israel

transfer rate				
transfer rate				
with WLAN / maximum	1733 Mbit/s			
 for Industrial Ethernet 	10, 100, 1000 Mbit/s			
interfaces				
number of electrical/optical connections / for network components or terminal equipment / maximum / note	2			
number of electrical/optical connections / for gigabit Ethernet / maximum	2			
number of electrical connections				
 for network components or terminal equipment 	2			
 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)			
memory				
design of the removable storage				
• CLP	Yes			
CLP iFeatures	Yes			
interfaces / wireless				
number of radio cards / permanently installed	2			
transmission mode / for multiple input multiple output (MIMO)	4x4			
number of spatial streams	4			
number of electrical connections / for external antenna(s)	8			
type of electrical connection / for external antenna(s)	N-Connect (socket)			
product feature / external antenna can be mounted directly on device	Yes			
supply voltage, current consumption, power loss				
type of voltage / of the supply voltage	DC			
supply voltage				
 from Power-over-Ethernet according to IEEE802.3at for type 2 	48 V			
consumed current				
• at DC / at 24 V / typical	0.7 A			
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	0.385 A			
power loss [W]				
• at DC / at 24 V / typical	16.8 W			
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	18.5 W			



supply voltage / 1 is from M12 Power Connector (A.codieti) for redundant power supply supply voltage / 2 is from M12 Power Connector (A.codieti) for redundant power supply ambient temperature is during strange is during strange is during strange is during strange is during strange perator in water is during strange perator in water perator is during is strange perator is during is strange is strange is strange perator is during is strange is strange is strange is strange perator is during is strange is strange		
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ambient kongerature		31.2 V
amblent temperature -40 +75 °C • during transport -40 +85 °C • during operation / maximum -40 +85 °C • during operation / during operation / during -288 mm • depth / of the enclosure / whood antenna 258 mm • depth / of the enclosure / whood antenna 260 mm • enderstare / conformal coating -27 kg • station mounting Yes • station mounting Yes • station mounting Yes • and mounting Yes • and mounting Yes • or WLAN In 3 4 GHz frequency band 2.41 2.46 GHz, depending		
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40 +85 °C rediate hundling at 25 °C without condensation / during grotection class IP 90 % protection class IP IP85 dispin, dimensions and weights 268 mm with 268 mm design, dimensions and weights 80 mm with 268 mm design, dimensions and weights 80 mm with of the enclosure / without antenna 258 mm height / of the enclosure / without antenna 80 mm eff of the enclosure / without antenna 80 mm eff of the enclosure / without antenna 80 mm eff of the enclosure / without antenna 80 mm fastering method Accessories are required for wall mounting and mounting on a mounting nail. • 87 -800 rall mounting Yes • 87 -800 rall mounting Yes • 67 WLAN in 5 GHz frequency band 2.41 2.48 GHz; depending on the country approvals • for WLAN in 5 GHz frequency band 2.41 2.48 GHz; depending on the country approvals • for WLAN in 5 GHz frequency band 2.41 2.48 GHz; depending on the country approvals • for WLAN in 5 GHz frequency band 2.41 2.48 GHz; depending on the country approvals	 during operation 	-40 +75 °C
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• web-based managementYes• MIB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• configuration with STEP 7 in the TIA PortalYes• operation with IWLAN controllerNo• forced roaming with IWLANYes• forced roaming on IP down with IWLANYes• forced roaming on link down with IWLANYes• WDSYes• WDSYes• Configuration Protocol (ARP)Yes• ICMPYes• TelnetYes	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 product function / iREF product function / iPRP product functions / management, configuration, engineering	Yes Yes 16 No No No No No
MIB supportYes• MIB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• configuration with STEP 7 in the TIA PortalYes• operation with IWLAN controllerNo• forced roaming with IWLANYes• forced roaming on IP down with IWLANYes• forced roaming on Ink down with IWLANYes• WDSYes• WDSYes• MIDSYes• ComportedYes• ICMPYes• TelnetYes	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 product function / iREF product function / iPRP product functions / management, configuration, engineering product function	Yes Yes 16 No No No No Yes
TRAPs via emailYes• TRAPs via emailYes• configuration with STEP 7Yes• configuration with STEP 7 in the TIA PortalYes• operation with IWLAN controllerNo• forced roaming with IWLANYes• forced roaming on IP down with IWLANYes• MDSYes• MDSYes• Address Resolution Protocol (ARP)Yes• ICMPYes• TelnetYes	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 product function / iREF product function / iPRP product functions / management, configuration, engineering product function • CLI	Yes Yes 16 No No No No No Yes
• configuration with STEP 7Yes• configuration with STEP 7 in the TIA PortalYes• operation with IWLAN controllerNo• forced roaming with IWLANYes• forced roaming on IP down with IWLANYes• forced roaming on link down with IWLANNo• WDSYes• wDSYes• Address Resolution Protocol (ARP)Yes• ICMPYes• TelnetYes	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 product function / iREF product function / iPRP product function • CLI • web-based management	Yes Yes 16 No No No No Yes Yes
• configuration with STEP 7 in the TIA PortalYes• operation with IWLAN controllerNo• forced roaming with IWLANYes• forced roaming on IP down with IWLANYes• forced roaming on link down with IWLANNo• WDSYes• protocol / is supportedYes• Address Resolution Protocol (ARP)Yes• ICMPYes• TelnetYes	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 product function / iREF product function / iPRP product function • CLI • web-based management • MIB support	Yes Yes 16 No No No No Yes Yes Yes Yes Yes Yes Yes
• operation with IWLAN controllerNo• forced roaming with IWLANYes• forced roaming on IP down with IWLANYes• forced roaming on link down with IWLANNo• WDSYes• WDSYes• Address Resolution Protocol (ARP)Yes• ICMPYes• TelnetYes	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 product function / iREF product function / iPRP product function • CLI • web-based management • MIB support • TRAPs via email	Yes Yes 16 No No No No No Yes
• forced roaming with IWLANYes• forced roaming on IP down with IWLANYes• forced roaming on link down with IWLANNo• WDSYes• protocol / is supportedYes• Address Resolution Protocol (ARP)Yes• ICMPYes• TelnetYes	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 product function / iREF product function / iPRP product function • CLI • web-based management • MIB support • TRAPs via email	Yes Yes 16 No No No No No Yes
 forced roaming on IP down with IWLAN forced roaming on link down with IWLAN WDS Yes protocol / is supported Address Resolution Protocol (ARP) ICMP Telnet Yes 	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 product function / iREF product function / iPRP product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7	Yes Yes 16 No No No No No Yes
• forced roaming on IP down with IWLANYes• forced roaming on link down with IWLANNo• WDSYes• protocol / is supportedYes• Address Resolution Protocol (ARP)Yes• ICMPYes• TelnetYes	product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF-MC Access Point • iPCF-MC Client product function / iREF product function / iREP 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	Yes Yes 16 No No No No No Yes
• forced roaming on link down with IWLAN No • WDS Yes protocol / is supported Yes • Address Resolution Protocol (ARP) Yes • ICMP Yes • Telnet Yes	product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF-MC Access Point • iPCF-MC Client product function / iREF product function / iREP 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	Yes Yes 16 No No No No Yes No
• WDS Yes protocol / is supported	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 product function / iREF product function / iREP 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 • forced roaming with IWLAN	Yes Yes 16 No No No No Yes No Yes No Yes
protocol / is supported • Address Resolution Protocol (ARP) • ICMP • Telnet Yes	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 product function / iREF product function / iREF 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 • forced roaming on IP down with IWLAN	Yes Yes 16 No No No No Yes Yes <tr td=""></tr>
• Address Resolution Protocol (ARP) Yes • ICMP Yes • Telnet Yes	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 product function / iREF product function / iREF 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 • forced roaming on IP down with IWLAN • forced roaming on link down with IWLAN	Yes Yes 16 No No No No Yes No No No
ICMP Yes Telnet Yes	product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF-MC Access Point • iPCF-MC client product function / iREF product function / iREF 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 • forced roaming on IP down with IWLAN • forced roaming on link down with IWLAN • WDS	Yes Yes 16 No No No No Yes No No No
• Telnet Yes	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 product function / iREF product function / iREP product function / iPRP product function / iPRP product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • configuration with STEP 7 • configuration with STEP 7 in the TIA Portal • operation with IWLAN controller • forced roaming on IP down with IWLAN • forced roaming on IP down with IWLAN • WDS protocol / is supported	Yes Yes 16 No No No No No Yes No Yes No Yes No Yes No Yes
	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 product function / iREF 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 • forced roaming on IP down with IWLAN • forced roaming on link down with IWLAN • WDS protocol / is supported • Address Resolution Protocol (ARP)	Yes Yes 16 No No No No No Yes Yes
• HTTP Yes	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 product function / iREF product function / iPRP product function / iPRP forced roaming on IPR / in the TIA Portal operation with IVLAN controller forced roaming on IP down with IWLAN forced roaming on IP down with IWLAN wWDS protocol / is supported Address Resolution Protocol (ARP) ICMP	Yes Yes 16 No No No No No No Yes
	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 product function / iREF product function / iPRP product function / iPRP forced roaming on IPR / inte TIA Portal operation with STEP 7 in the TIA Portal operation with IWLAN controller forced roaming with IWLAN forced roaming on IP down with IWLAN forced roaming on IP down with IWLAN wDS protocol / is supported Address Resolution Protocol (ARP) iCMP Telnet	Yes Yes 16 No No No No No No Yes Yes



• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	Yes
identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 - higher level designation/location designation 	Yes
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
product functions / diagnostics	
product function	
PROFINET IO diagnosis	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v2c	Yes
• SNMP v3	Yes
product functions / VLAN	
product function	
function VLAN with IWLAN	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 function	
ACL - MAC-based	No
 management security, ACL-IP based 	Yes
• IEEE 802.1x (radius)	Yes
NAT/NAPT	No
 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	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC,
	T4, FM16US0205X
 for safety / from CSA and UL 	IEC 62368-1, UL 60950-1 E115352-A6001
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
• IEC 61850-3	No
 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				
• IEEE 802.11ac	Yes				
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen				
reference code					
according to IEC 81346-2:2019	KFE				
standards, specifications, approvals / hazardous environments					
standard / for hazardous zone	EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc				
• from CSA and UL	UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, E240480				
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8				
• as marking	Ex nA IIC T4 Gc				
accessories					
accessories	pre-assembled holder for attachment to a DIN rail				
further information / internet links					
internet link					
 to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358				
 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud				
 to web page: WLAN country approval 	https://www.siemens.com/wireless-approvals				
to the website: IWLAN	https://www.siemens.com/iwlan				
 to website: Industrial communication 	https://www.siemens.com/simatic-net				
 to web page: SiePortal 	https://sieportal.siemens.com/				
 to website: Image database 	https://www.automation.siemens.com/bilddb				
 to website: CAx-Download-Manager 	https://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 cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cyt. (V4.7)				
Approvals / Certificates					
General Product Approval					
EG-Konf.	Manufacturer Declara- tion China RoHS UK				
General Product Approval For use in haz	zardous locations				
• • –					
	Oubiest to show with set or time				



Radio Equipment Typ	e Approval Certificate	Railway			
Miscellaneous	Miscellaneous	Confirmation			
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