

product type designation



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 A-coded 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

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| transfer rate | |
| <ul style="list-style-type: none"> with WLAN / maximum for Industrial Ethernet | 1733 Mbit/s 10, 100, 1000 Mbit/s |
| transfer rate / for Industrial Ethernet | |
| <ul style="list-style-type: none"> minimum maximum | 10 Mbit/s 1000 Mbit/s |

interfaces

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| 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 | |
| <ul style="list-style-type: none"> for network components or terminal equipment for power supply for redundant voltage supply | 2 1 1 |
| type of electrical connection | |
| <ul style="list-style-type: none"> for network components or terminal equipment for power supply | M12 interface (8-pole, X-coded), PoE M12 interface (4-pole, A-coded) |
| design of the removable storage | |
| <ul style="list-style-type: none"> CLP CLP iFeatures | Yes Yes |

memory

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| design of the removable storage | |
| <ul style="list-style-type: none"> CLP CLP iFeatures | Yes Yes |

interfaces / wireless


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| 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

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| type of voltage / of the supply voltage | DC |
| supply voltage | |
| <ul style="list-style-type: none"> from Power-over-Ethernet according to IEEE802.3at | 48 V |

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| for type 2 | |
| consumed current | |
| <ul style="list-style-type: none"> at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for type 2 / typical | 0.7 A 0.385 A |
| power loss [W] | |
| <ul style="list-style-type: none"> at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for type 2 / typical | 16.8 W 18.5 W |
| supply voltage / 1 | |
| <ul style="list-style-type: none"> from M12 Power Connector (A-coded) for redundant power supply | 16.8 V |
| supply voltage / 2 | |
| <ul style="list-style-type: none"> from M12 Power Connector (A-coded) for redundant power supply | 31.2 V |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> during operation during storage during transport | -40 ... +75 °C -40 ... +85 °C -40 ... +85 °C |
| relative humidity / at 25 °C / without condensation / during operation / maximum | 90 % |
| protection class IP | IP65 |
| design, dimensions and weights | |
| width | 258 mm |
| height | 258 mm |
| depth | 80 mm |
| width / of the enclosure / without antenna | 258 mm |
| height / of the enclosure / without antenna | 258 mm |
| depth / of the enclosure / without antenna | 80 mm |
| net weight | 2.7 kg |
| product feature / conformal coating | Yes |
| fastening method | Accessories are required for wall mounting and mounting on a mounting rail. |
| <ul style="list-style-type: none"> S7-300 rail mounting S7-1500 rail mounting 35 mm top hat DIN rail mounting wall mounting | Yes Yes Yes Yes |
| radio frequencies | |
| operating frequency | |
| <ul style="list-style-type: none"> for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band | 2.41 ... 2.48 GHz; depending on the country approvals 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 | |
| <ul style="list-style-type: none"> iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client | No No No No |
| product function / iREF | No |
| product function / iPRP | Yes |
| product functions / management, configuration, engineering | |
| product function | |
| <ul style="list-style-type: none"> CLI web-based management MIB support TRAPs via email configuration with STEP 7 configuration with STEP 7 in the TIA Portal | Yes Yes Yes Yes Yes Yes |

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| <ul style="list-style-type: none"> • operation with IWLAN controller | No |
| <ul style="list-style-type: none"> • forced roaming with IWLAN | Yes |
| <ul style="list-style-type: none"> • forced roaming on IP down with IWLAN | Yes |
| <ul style="list-style-type: none"> • forced roaming on link down with IWLAN | No |
| <ul style="list-style-type: none"> • WDS | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> • Address Resolution Protocol (ARP) | Yes |
| <ul style="list-style-type: none"> • ICMP | Yes |
| <ul style="list-style-type: none"> • Telnet | Yes |
| <ul style="list-style-type: none"> • HTTP | Yes |
| <ul style="list-style-type: none"> • HTTPS | Yes |
| <ul style="list-style-type: none"> • TFTP | Yes |
| <ul style="list-style-type: none"> • DCP | Yes |
| <ul style="list-style-type: none"> • LLDP | Yes |
| identification & maintenance function | |
| <ul style="list-style-type: none"> • I&M0 - device-specific information | Yes |
| <ul style="list-style-type: none"> • I&M1 – higher level designation/location designation | Yes |
| product functions / diagnostics | |
| product function | |
| <ul style="list-style-type: none"> • PROFINET IO diagnosis | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> • SNMP v1 | Yes |
| <ul style="list-style-type: none"> • SNMP v2c | Yes |
| <ul style="list-style-type: none"> • SNMP v3 | Yes |
| product functions / VLAN | |
| product function | |
| <ul style="list-style-type: none"> • function VLAN with IWLAN | Yes |
| product functions / DHCP | |
| product function | |
| <ul style="list-style-type: none"> • DHCP client | Yes |
| <ul style="list-style-type: none"> • DHCP server | Yes |
| <ul style="list-style-type: none"> • DHCP Option 82 | Yes |
| product functions / redundancy | |
| protocol / is supported | |
| <ul style="list-style-type: none"> • STP/RSTP | Yes |
| <ul style="list-style-type: none"> • MSTP | Yes |
| <ul style="list-style-type: none"> • RSTP | Yes |
| product functions / security | |
| product function | |
| <ul style="list-style-type: none"> • ACL - MAC-based | No |
| <ul style="list-style-type: none"> • management security, ACL-IP based | Yes |
| <ul style="list-style-type: none"> • IEEE 802.1x (radius) | Yes |
| <ul style="list-style-type: none"> • NAT/NAPT | No |
| <ul style="list-style-type: none"> • access protection according to IEEE802.11i | Yes |
| <ul style="list-style-type: none"> • WPA/WPA2 | Yes |
| <ul style="list-style-type: none"> • TKIP/AES | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> • SSH | Yes |
| <ul style="list-style-type: none"> • RADIUS | Yes |
| product functions / time | |
| protocol / is supported | |
| <ul style="list-style-type: none"> • NTP | Yes |
| <ul style="list-style-type: none"> • SNTP | Yes |
| <ul style="list-style-type: none"> • SIMATIC time synchronization (SIMATIC Time) | Yes |
| standards, specifications, approvals | |
| standard | |
| <ul style="list-style-type: none"> • for FM | FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4 |
| <ul style="list-style-type: none"> • for safety / from CSA and UL | IEC 62368-1 |

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| certificate of suitability | |
| <ul style="list-style-type: none"> • EC Declaration of Conformity • CE marking • C-Tick • E1 approval • railway application in accordance with EN 50155 • railway application in accordance with EN 50121-4 • fire protection in accordance with EN 45545-2 • IEC 61850-3 • Power-over-Ethernet according to IEEE802.3at for type 2 | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> |
| standard for wireless communication | |
| <ul style="list-style-type: none"> • IEEE 802.11a • IEEE 802.11b • IEEE 802.11e • IEEE 802.11g • IEEE 802.11h • IEEE 802.11i • IEEE 802.11n • IEEE 802.11ac | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> |
| wireless approval | You will find the current list of countries at: www.siemens.de/funkzulassungen |
| 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 |
| <ul style="list-style-type: none"> • 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 |
| certificate of suitability / CCC / for hazardous zone according to GB standard | Yes |
| accessories | |
| accessories | pre-assembled holder for attachment to a DIN rail |
| further information / internet-Links | |
| Internet-Link | |
| <ul style="list-style-type: none"> • 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 | <p>http://www.siemens.com/tia-selection-tool</p> <p>http://www.siemens.com/tia-selection-tool</p> <p>http://www.siemens.com/iwlan</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p> |
| security information | |
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