SIEMENS

## Product data sheet 6GK5786-1AA60-2AB0

| Product-type designation | SCALANCE W786-1PRO |
|---|---|
|  | IWLAN ACCESS POINT SCALANCE W786-1PRO,<br>ONLY FOR USE IN USA,<br>IEEE 802.11B/G/A/H,<br>INDUSTRIAL WIRELESS LAN (IWLAN) 2.4/5 GHZ,<br>UP TO 54MBIT/S, WPA2/802.11I/11E,<br>NOTE NATIONAL APPROVALS, 48VDC,<br>IP65(-40-+70 DGR C),<br>2X EXT. ANTENNA CONNECTIONS,<br>1 RADIO INTERFACE, POE,<br>RJ45 (TWISTED PAIR) SOCKET,<br>SCOPE OF SUPPLY: MOUNT. MAT.,<br>MANUAL ON CD-ROM GERMAN/ENGLISH; |
| **Transmission rate** | |
| Transmission rate | |
| • with W-LAN / maximum | 54 Mbit/s |
| • with Industrial Ethernet | 10 … 100 Mbit/s |
| • note | Due to the simultaneous use of several radio channels, a transmission rate of 108 Mbit/s is possible (turbo mode) |
| **Interfaces** | |
| Number of electrical connections | |
| • for network components and terminal equipment | 1 |
| • for power supply | 1 |
| • for redundant power supply | 1 |
| Design of electrical connection | |
| • for network components and terminal equipment | RJ45 socket |
| • for power supply | 2-pole connector (48 V DC) or optionally available power supply adapter (4-pole 12 to 24 V DC or 3-pole 100 to 240 V AC) |
| design of the removable storage / C-PLUG | Yes |
| **Interfaces / wireless** | |
| Number of radio cards / permanently installed | 1 |
| Number of electrical connections / for external antenna(s) | 2 |
| Design of the electrical connection / for external antenna(s) | R-SMA female (socket) |


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| | |
|---|---|
| Product property / external antenna can be mounted directly on device | No |
| **Supply voltage, current consumption, power loss** | |
| Type of voltage / of supply voltage | DC |
| Supply voltage | |
| • 1 / from terminal block | 48 V |
| • from Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af | 48 V |
| • from optional integratable power supply | |
| • with AC | 100 … 240 V |
| • with DC | 12 … 24 V |
| Current consumed | |
| • at 24 V / with DC / typical | 0.28 A |
| • at 48 V / with DC / typical | 0.14 A |
| • at 230 V / with AC / typical | 0.03 A |
| • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical | 0.14 A |
| Effective power loss | |
| • at 24V / for DC / typical | 6.5 W |
| • at 48 V / with DC / typical | 6.5 W |
| • at 230 V / with AC / typical | 6.5 W |
| • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical | 6.5 W |
| **Permitted ambient conditions** | |
| Ambient temperature | |
| • during operating | -40 … +70 °C |
| • during storage | -40 … +85 °C |
| • during transport | -40 … +85 °C |
| Relative humidity / at 25 °C / without condensation / during operating / maximum | 100 % |
| Protection class IP | IP65 |
| Ambient condition / for (standard) operation mode | When using the power supply 100 to 240 V AC, an operating temperature of -40 °C to +60 °C is permissible |
| **Design, dimensions and weight** | |
| Width / of enclosure / without antenna | 251 mm |
| Height / of enclosure / without antenna | 251 mm |
| Depth / of enclosure / without antenna | 72 mm |
| Net weight | 2.24 kg |
| Type of mounting | |
| • wall mounting | Yes |
| Type of mounting | For mast mounting, 35 mm DIN rail mounting and S7-300 rail mounting, an additional support plate is required |


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| **Wireless frequencies** | |
| Radio frequency | |
| • for WLAN in 2.4 GHz frequency band | 2.41 … 2.48 GHz |
| • for WLAN in 5 GHz frequency band | 4.9 … 5.8 GHz |
| **Product properties, functions, components / general** | |
| Number of SSIDs | 8 |
| Product function | |
| • Dual Client | No |
| • iHOP | No |
| • iPCF | No |
| • iPCF-MC | No |
| Number of iPCF-capable radio modules | 0 |
| **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 |
| • iQoS | Yes |
| • forced roaming with IWLAN | Yes |
| • WDS | Yes |
| Protocol / is supported | |
| • Address Resolution Protocol (ARP) | Yes |
| • ICMP | Yes |
| • Telnet | Yes |
| • HTTP | Yes |
| • HTTPS | Yes |
| • TFTP | Yes |
| • SNMP v1 | Yes |
| • SNMP v2 | Yes |
| • SNMP v3 | Yes |
| • DCP | Yes |
| • LLDP | Yes |
| Identification & maintenance | |


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|---|---|
| • I&M0 - device-specific information | Yes |
| • I&M1 - plant identification/location name | Yes |
| **Product functions / Diagnosis** | |
| Product function | |
| • PROFINET IO diagnosis | Yes |
| • Link Check | Yes |
| • connection monitoring IP-Alive | Yes |
| • localization via Aeroscout | Yes |
| • SysLog | Yes |
| **Product functions / VLAN** | |
| Product function / function VLAN with IWLAN | Yes |
| **Product functions / DHCP** | |
| Product function / DHCP client | Yes |
| **Product functions / Redundancy** | |
| Protocol / is supported / STP/RSTP | Yes |
| **Product functions / Security** | |
| Product function | |
| • ACL - MAC-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 |
| **Product functions / Time** | |
| Protocol / is supported / SNTP | Yes |
| **Standards, specifications, approvals** | |
| Standard | |
| • for EMC / from 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 07 ATEX 0145X |
| • for safety / of CSA and UL | UL 60950-1 CSA C22.2 No. 60950-1 |
| • for hazardous area / of CSA and UL | UL 1604, CSA C22.2 No. 213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC, T4 |
| Verification of suitability | |
| • CE mark | Yes |
| • EC declaration of conformity | Yes |
| • C-Tick | Yes |
| • CCC | No |


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| • Railway application in accordance with EN 50155 | No |
| • e1 approval | Yes |
| • E1 approval | Yes |
| • NEMA4X | Yes |
| • Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af | 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 | No |
| Wireless approval | For operation in the USA, you can find more detailed information at: www.siemens.com/simatic-net/ik-info |
| Marine classification association | |
| • American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| • Bureau Veritas (BV) | Yes |
| • Det Norske Veritas (DNV) | No |
| • Germanische Lloyd (GL) | Yes |
| • Lloyds Register of Shipping (LRS) | Yes |
| • Nippon Kaiji Kyokai (NK) | Yes |
| • Polski Rejestr Statkow (PRS) | No |
| **Accessories** | |
| Accessories | 48 V DC screw terminal included in scope of delivery |
| **letzte Änderung:** | May 28, 2012 |


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