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Data sheet 6GK5750-2HX01-1AA0



WLAN access point, SCALANCE W1750D-2IA RJ45, 2 radios, controller operation without WLC, internal antennas, IEEE802.11ac wave2 AP, MU-MIMO, gross up to 800 Mbit/s (2.4 GHz) Gross up to 1.7 Gbit/s (5 GHz), 2 x RJ45, PoE, USB, 0 °C to +50 °C, Observe national approval! Cert ID includes: MPCIE Scope of delivery: DVD, Quick Start Guide (en) manuals Ceiling bracket Type: RoW

transfer rate	
transfer rate	
• with WLAN / maximum	2500 Mbit/s
• with WLAN / in the 2,4 GHz frequency band / maximum	800 Mbit/s
• with WLAN / in the 5 GHz frequency band / maximum	1733 Mbit/s
• for Industrial Ethernet	10, 100, 1000 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	2000 Mbit/s
transfer rate / note	Max. transmission rate each for aggregation

interfaces	
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	0

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number of interfaces / acc. to USB	1
type of electrical connection	
• for network components or terminal equipment	RJ45 socket
• for power supply	DC plug 2.1/5.5-mm (2.1/5.5-mm center-positive circular plug with 9.5 mm length)
• of the USB interface	USB2.0 Type A
interfaces / wireless	
number of radio cards / permanently installed	2
transmission mode / for multiple input multiple output (MIMO)	4x4; 4 spatial streams SU-MIMO for up to 1733 Mbps - 3 spatial streams MU-MIMO for up to 1300 Mbps
number of spatial streams	4
number of internal antennas	8
antenna gain compared to spherical radiator / of the WLAN antenna	
• in the 2.4 GHz frequency band	3.5 dB
• in the 5 GHz frequency band	5 dB
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage	
• from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af	48 V
• from Power-over-Ethernet acc. to IEEE802.3at for type 2	48 V
ambient conditions	
ambient temperature	
• during operation	0 ... 50 °C
• during storage	-40 ... +70 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	93 %
protection class IP	IP20
design, dimensions and weights	
width	210 mm
height	210 mm
depth	57 mm
width / of the enclosure / without antenna	210 mm
height / of the enclosure / without antenna	210 mm
depth / of the enclosure / without antenna	57 mm
net weight	0.95 kg
fastening method	Ceiling mounting
• wall mounting	No
radio frequencies	

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• operating frequency / for WLAN in 2.4 GHz frequency band	2.4 ... 2.48 GHz; depending on the country approvals
• operating frequency / for WLAN in 5 GHz frequency band	5.15 ... 5.85 GHz; depending on the country approvals

product features, product functions, product components / general	
product function / Access Point Mode	Yes
product function / client Mode	No
number of SSIDs	16
product function	
• dual client	No

product functions / management, configuration, engineering	
product function	
• CLI	Yes
• web-based management	Yes
• operation with IWLAN controller	No
• operation with Enterasys WLAN controller	No
• operation with Aruba Mobility Controllers	Yes

product functions / Direct Access Point	
number supported Direct Access Point	128
operating mode / as Direct Access Point	Yes

product functions / DHCP	
product function	
• DHCP client	Yes

standards, specifications, approvals	
standard	
• for safety / from CSA and UL	UL/IEC/EN 60950
certificate of suitability	
• EC Declaration of Conformity	Yes
• CE marking	Yes
• C-Tick	Yes
• E1 approval	No
• Power-over-Ethernet according to IEEE802.3at for type 2	Yes
• standard for wireless communication / IEEE 802.11a	Yes
• standard for wireless communication / IEEE 802.11b	Yes
• standard for wireless communication / IEEE 802.11e	Yes
• standard for wireless communication / IEEE 802.11g	Yes

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• standard for wireless communication / IEEE 802.11h	Yes
• standard for wireless communication / IEEE 802.11i	Yes
• standard for wireless communication / IEEE 802.11n	Yes
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen

further information / internet-Links

Internet-Link	
• 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/automation/net/catalog
• 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. 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)
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