

### product type designation



### W1750D-2IA RJ45 Direct AP (USA)

\*\*\*\*\* spare part \*\*\*\*\* 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), 2x 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: US.

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
number of interfaces / according 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 according to IEEE802.3af for type 1 and IEEE802.3af	48 V
• from Power-over-Ethernet according to IEEE802.3af 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
<b>design, dimensions and weights</b>	
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
<b>radio frequencies</b>	
operating frequency	
• for WLAN in 2.4 GHz frequency band	2.4 ... 2.48 GHz; depending on the country approvals
• for WLAN in 5 GHz frequency band	5.15 ... 5.85 GHz; depending on the country approvals
<b>product features, product functions, product components / general</b>	
product function / Access Point Mode	Yes
product function / client Mode	No
number of SSIDs	16
product function	
• dual client	No
<b>product functions / management, configuration, engineering</b>	
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
<b>product functions / Direct Access Point</b>	
number supported Direct Access Point	128
operating mode / as Direct Access Point	Yes
<b>product functions / DHCP</b>	
product function	
• DHCP client	Yes
<b>standards, specifications, approvals</b>	
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
• 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	You will find the current list of countries at: <a href="http://www.siemens.de/funkzulassungen">www.siemens.de/funkzulassungen</a>
<b>further information / internet links</b>	
internet link	
• to web page: selection aid TIA Selection Tool	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>

- 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

<http://www.siemens.com/iwlan>  
<https://mall.industry.siemens.com>  
<http://www.siemens.com/automation/net/catalog>  
<http://automation.siemens.com/bilddb>  
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<https://support.industry.siemens.com>

## security information

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