



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: US

Transfer rate	
Transfer rate	
<ul style="list-style-type: none"> with WLAN / maximum 	2500 Mbit/s
<ul style="list-style-type: none"> with WLAN / in the 2,4 GHz frequency band / maximum 	800 Mbit/s
<ul style="list-style-type: none"> with WLAN / in the 5 GHz frequency band / maximum 	1733 Mbit/s
<ul style="list-style-type: none"> for Industrial Ethernet 	10, 100, 1000 Mbit/s
Transfer rate / for Industrial Ethernet	
<ul style="list-style-type: none"> minimum 	10 Mbit/s
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> for network components or terminal equipment 	2
<ul style="list-style-type: none"> for power supply 	1
<ul style="list-style-type: none"> for redundant voltage supply 	0

Number of interfaces / acc. to USB	1
Type of electrical connection	
<ul style="list-style-type: none"> • for network components or terminal equipment • for power supply • of the USB interface 	RJ45 socket DC plug 2.1/5.5-mm (2.1/5.5-mm center-positive circular plug with 9.5 mm length) 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	
<ul style="list-style-type: none"> • in the 2.4 GHz frequency band • in the 5 GHz frequency band 	3.5 dB 5 dB

Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage	
<ul style="list-style-type: none"> • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af • from Power-over-Ethernet acc. to IEEE802.3at for type 2 	48 V 48 V

Ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage 	0 ... 50 °C -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
Mounting type	Ceiling mounting
<ul style="list-style-type: none"> • wall mounting 	No

Radio frequencies	
Operating frequency	

- for WLAN in 2.4 GHz frequency band
- for WLAN in 5 GHz frequency band

2.4 ... 2.48 GHz; depending on the country approvals
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
• 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:
www.siemens.de/funkzulassungen

Further information / Internet-Links

Internet-Link

- 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>
<http://www.siemens.com/cax>
<https://support.industry.siemens.com>

Security information

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