

### Product type designation

### SCALANCE W1750D-2IA RJ45 (RoW)

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

<ul style="list-style-type: none"> <li>• for redundant voltage supply</li> </ul>	0
Number of interfaces / acc. to USB	1
Type of electrical connection	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
<ul style="list-style-type: none"> <li>• for network components or terminal equipment</li> <li>• for power supply</li> </ul>	
<ul style="list-style-type: none"> <li>• of the USB interface</li> </ul>	

#### 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	3.5 dB 5 dB
<ul style="list-style-type: none"> <li>• in the 2.4 GHz frequency band</li> <li>• in the 5 GHz frequency band</li> </ul>	

#### Supply voltage, current consumption, power loss

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

#### Ambient conditions

Ambient temperature	0 ... 50 °C -40 ... +70 °C
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>	
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"> <li>• wall mounting</li> </ul>	No

#### Radio frequencies

Operating frequency	
<ul style="list-style-type: none"> <li>• for WLAN in 2.4 GHz frequency band</li> </ul>	2.4 ... 2.48 GHz
<ul style="list-style-type: none"> <li>• for WLAN in 5 GHz frequency band</li> </ul>	5.15 ... 5.85 GHz

### Product features, product functions, product components / general

Product function / Access Point Mode	Yes
Product function / Client Mode	No
Number of SSIDs	16
Product function	
<ul style="list-style-type: none"> <li>• Dual Client</li> </ul>	No

### Product functions / management, configuration, engineering

Product function	
<ul style="list-style-type: none"> <li>• CLI</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• operation with IWLAN controller</li> </ul>	No
<ul style="list-style-type: none"> <li>• operation with Enterasys WLAN controller</li> </ul>	No
<ul style="list-style-type: none"> <li>• Operation with Aruba Mobility Controllers</li> </ul>	Yes

### Product functions / Direct Access Point

Number supported Direct Access Point	128
Operating mode / as Direct Access Point	Yes

### Product functions / DHCP

Product function	
<ul style="list-style-type: none"> <li>• DHCP client</li> </ul>	Yes

### Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>	UL/IEC/EN 60950
Certificate of suitability	
<ul style="list-style-type: none"> <li>• EC declaration of conformity</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• C-Tick</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• E1 approval</li> </ul>	No
<ul style="list-style-type: none"> <li>• Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	Yes
Standard for wireless communication	
<ul style="list-style-type: none"> <li>• IEEE 802.11a</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11b</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11e</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11g</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11h</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11i</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11n</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.11ac</li> </ul>	Yes

Wireless approval

You will find the current list of countries at:  
[www.siemens.de/funkzulassungen](http://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

### 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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