

### product type designation



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

\*\*\*\*\* 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: JP.

| 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 / according to USB  | 1  |
| type of electrical connection  |  |
| <ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>                                 | RJ45 socket  |
| <ul style="list-style-type: none"> <li>for power supply</li> </ul>   | DC plug 2.1/5.5-mm (2.1/5.5-mm center-positive circular plug with 9.5 mm length)                   |
| <ul style="list-style-type: none"> <li>of the USB interface</li> </ul>   | 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"> <li>in the 2.4 GHz frequency band</li> </ul>  | 3.5 dB   |
| <ul style="list-style-type: none"> <li>in the 5 GHz frequency band</li> </ul>  | 5 dB   |
| supply voltage, current consumption, power loss  |  |
| type of voltage / of the supply voltage  | DC   |
| supply voltage   |  |
| <ul style="list-style-type: none"> <li>from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af</li> </ul> | 48 V   |

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>from Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>  | 48 V  |
| <b>ambient conditions</b>   |   |
| ambient temperature   |   |
| <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul>  | 0 ... 50 °C<br>-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  |
| <ul style="list-style-type: none"> <li>wall mounting</li> </ul>   | No  |
| <b>radio frequencies</b>  |   |
| operating frequency   |   |
| <ul style="list-style-type: none"> <li>for WLAN in 2.4 GHz frequency band</li> <li>for WLAN in 5 GHz frequency band</li> </ul>  | 2.4 ... 2.48 GHz; depending on the country approvals<br>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  |   |
| <ul style="list-style-type: none"> <li>dual client</li> </ul>   | No  |
| <b>product functions / management, configuration, engineering</b>   |   |
| product function  |   |
| <ul style="list-style-type: none"> <li>CLI</li> <li>web-based management</li> <li>operation with IWLAN controller</li> <li>operation with Enterasys WLAN controller</li> <li>operation with Aruba Mobility Controllers</li> </ul> | Yes<br>Yes<br>No<br>No<br>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  |   |
| <ul style="list-style-type: none"> <li>DHCP client</li> </ul>   | Yes   |
| <b>standards, specifications, approvals</b>   |   |
| 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> <li>CE marking</li> <li>C-Tick</li> <li>E1 approval</li> <li>Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>                          | Yes<br>Yes<br>Yes<br>No<br>Yes  |
| standard for wireless communication   |   |
| <ul style="list-style-type: none"> <li>IEEE 802.11a</li> <li>IEEE 802.11b</li> <li>IEEE 802.11e</li> <li>IEEE 802.11g</li> <li>IEEE 802.11h</li> <li>IEEE 802.11i</li> <li>IEEE 802.11n</li> </ul>                                | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes   |

|   |   |
|---|---|
| wireless approval   | You will find the current list of countries at:<br><a href="http://www.siemens.de/funkzulassungen">www.siemens.de/funkzulassungen</a>   |
| <b>further information / internet-Links</b>   |   |
| Internet-Link   |   |
| <ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to the website: IWLAN</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul> | <ul style="list-style-type: none"> <li><a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a></li> <li><a href="http://www.siemens.com/iwlan">http://www.siemens.com/iwlan</a></li> <li><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></li> <li><a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a></li> <li><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></li> <li><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></li> <li><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></li> </ul>   |
| <b>security information</b>   |   |
| 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 <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a> . To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a> . (V3.4) |

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