

Wavion Dual Zone CPE

Wavion WCPE-24DZ-SR is an indoor dual zone CPE for residential wireless broadband access.

The WCPE-24DZ-SR provides an extended and ubiquitous indoor coverage in a cost-effective price. The device is compact and easily self-installed, enabling also simple window mount.

As part of Wavion's end-to-end-solution, the WCPE-24DZ-SR provides seamless dual zone connectivity – on one side to the Wavion base station and on the other side to the customer's PC or laptop throughout the customer's premise.

This dual zone capability simplifies the project roll out and enables product sales directly to the end user through retail stores. The WCPE-24DZ-SR full indoor coverage is achieved due to its high transmission power and sensitivity and due to its repeater functionality, which extends the Wavion's base station coverage to all the rooms in the customer's premise.

The WCPE-24DZ-SR is a key part of Wavion's residential wireless broadband solution. Together with the WBS-2400, the WCPE-24DZ-SR creates a highly cost-effective solution with unparalleled coverage and capacity.



Features & Benefits

- **Superior indoor coverage**
The repeater functionality ensures full indoor coverage at every room
- **Simple and fast service roll-out**
Enabled by the simple self-installed feature which allows sales through retail stores
- **Straightforward performance upgrades**
Enabled by replacing the default detachable antenna with a higher gain antenna
- **Cost effective solution**
Together with Wavion's WBS-2400 base station provides a very cost effective wireless broadband solution
- **Window-mount kit**
Included in the package, ensures easy user installation.
- **Plug-and-Play solution**
Does not require driver or computer installation – device is stand-alone and only needs power.

Typical application: Wireless broadband residential and SME access

Wireless is an attractive alternative for providing broadband access to residential neighborhoods. Among the different wireless solutions in the market today, Wavion's end-to-end solution provides the most cost-effective wireless network, with superior range and throughput, simpler deployment and easier maintenance.

Wavion WBS-2400 Wi-Fi base station is typically mounted on an elevated location in the neighborhood and provides coverage to surrounding households. Each household can purchase the WCPE-24DZ-SR at a convenient retailer and self-install it on or near a window, inside the house. With this simple setup, the WCPE-24DZ-SR will distribute the Wi-Fi signal indoors, ensuring wireless internet access to all the PC's, laptops and other internet devices throughout the house.



Specifications

Interfaces

802.11 b/g Wi-Fi radio
1 LAN port (Fast Ethernet)

Wireless Output Power

802.11b: 24 dBm
802.11g: 20 dBm
Wireless Receive Sensitivity
802.11b: -90 dBm @ 1 Mbps,
-84 dBm @ 11 Mbps
802.11g: -86 dBm @ 6 Mbps,
-68 dBm @ 54 Mbps

Operating Frequency

802.11g:
2.4 ~ 2.4835 GHz (US, Canada)
2.4 ~ 2.4835 GHz (ETSI, Japan)
802.11b:
2.4 ~ 2.4835 GHz (US, Canada)
2.4 ~ 2.4835 GHz (ETSI)
2.4 ~ 2.497 GHz (Japan)

Operating Channels

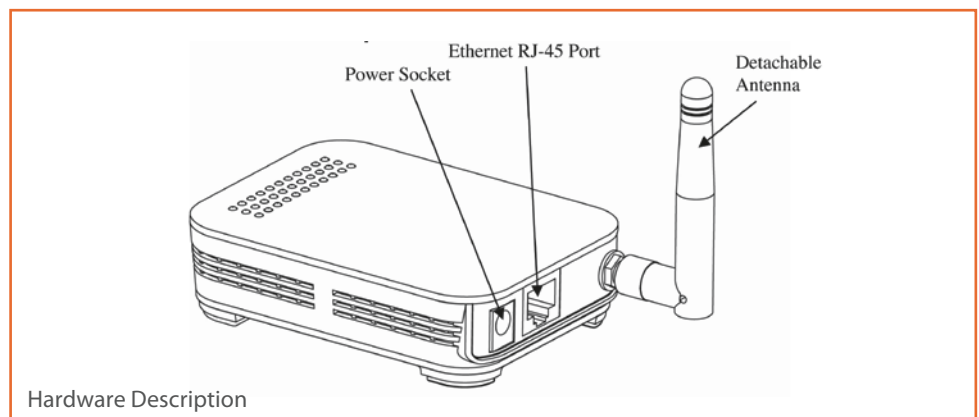
802.11g:
11 channels in base mode

Modulation Type

802.11g: CCK, BPSK, QPSK, OFDM
802.11b: CCK, BPSK, QPSK

AC Power Adapter

Input: 100-240 VAC, 50-60 Hz
Output: 12 VDC, 1 A



LED Indicators

POWER, LAN (Ethernet Link/Activity)
WLAN (Wireless Link/ Activity)

Network Management

Web-browser

Temperature

Operating: 0 to 40 °C (32 to 104 °F)
Storage: -20 to 70 °C (32 to 158 °F)

Humidity

15% to 95% (non-condensing)

Compliances

FCC Part 15B Class B
EN 55022B, EN 55024
EN61000-3-2, EN61000-3-3
VCCI Class B

Radio Signal Certification

FCC Part 15C 15.247, 15.207 (2.4 GHz)
EN 300 328, EN 301 489-1, EN 301 489-7
ARIB STD-T66, IC RSS-210

Standards

IEEE 802.1 x, IEEE 802.11b, g,
Wi-Fi 11b/g, WPA, WPA2, WMM

Physical Size

12.5 x 7 x 2.7 cm (4.92 x 2.76 x 1.06 in)

Weight

170 g (6 oz)