



### Wavion Indoor CPE

Wavion WCPE-24HP-USB is a high-end Wi-Fi USB CPE. Working as part of Wavion's end-to-end Wi-Fi solution, the WCPE-24HP-USB provides a high-performance cost-effective solution for residential wireless broadband access.

The WCPE-24HP-USB is compact and can be easily self-installed. It does not require an external power source and is fully plug-and-play with Microsoft operating systems.

This simplifies the project roll out and enables product sales directly to the end user through retail stores.

The WCPE-24HP-USB provides superior indoor coverage due to the high transmission power and sensitivity.

It enables connecting an external high gain antenna that enables quick and simple product upgrades directly by the customer.

The WCPE-24HP-USB is a key part of Wavion's residential wireless broadband solution.

Together with the WBS-2400, the WCPE-24HP-USB creates a highly cost-effective solution with unparalleled capacity and coverage.

#### Features & Benefits

##### • Superior indoor coverage

Provided by the CPE's high-power transmission and reception sensitivity

##### • 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

##### • Compact and flexible product

Comes in a compact package and does not require an external power source

##### • Window mount kit

Included in the package, ensures easy user installation, which maximizes network performance.

##### • Plug-and-Play solution

Compatible with Microsoft Windows 98SE, 2000, Millennium, XP and Vista, as well as Linux

#### Typical application - Wireless broadband residential and SME access

Wireless is an attractive alternative for providing broadband internet access service 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 enhanced range and throughput and quick and simple deployment and maintenance.

Wavion WBS-2400 Wi-Fi base station is typically mounted at a central location in the neighborhood and provides coverage to surrounding households. Each household can purchase the WCPE-24HP-USB at a convenient retailer and self-install the product near a window, inside the house. With this simple setup, the user can have internet access to all the PC's, laptops and other internet devices throughout the house.

In addition, as part of this solution, operators can bundle a VoIP telephony service simply by adding a VoIP soft-phone. Wavion's Wi-Fi base stations support Wi-Fi quality of service (QoS) for high priority VoIP traffic.



# WCPE 24HP-USB



Dr. Mati Wax - Founder and CTO

“ The introduction of this indoor CPE to our portfolio of CPEs is a critical contribution to our superior indoors penetration and performance. “

“The performance enabled by our WBS-2400 base station in conjunction with this powerful indoor CPE far exceeds any other WiFi product in the market today and provides the most cost-effective solution for wide-area coverage in both urban and rural environments. “

Category	Item	Description
Product General	Standards	Wireless: IEEE 802.11b/g USB 2.0 standard
	Data Rate	802.11b: UP to 11Mbps 802.11g: 54Mbps
	OS Supported	Windows 98SE, Windows ME, Windows 2000, Windows XP, Vista Linux 2.6, Mac 10.4
	Interface	USB 2.0 mini USB
	Antenna Type	1 x 2.4Ghz SMA connector
Hardware	Chipset	Realtek 8187L
	One LED	Power/Status, Wireless Act.
	Frequency Range	2412~2462 MHz (N.A) 2412~2472 MHz (EU) 2412~2484 MHz (Japan)
	Channel	1~11 channels ( North America ) 1~13 channels ( General Europe ) 1~14 channels (Japan)
	Emission Type	DSSS/OFDM 20 dBm (OFDM),27dBm(CCK)
	Output Power	Sensitivity for 802.11b/g
	Sensitivity for 802.11b/g	54Mbps (64QAM): -76dbm 48Mbps (64QAM): -77dbm 36Mbps (16QAM): -78dbm 24Mbps (16QAM): -80dbm 18Mbps (QPSK): -81dbm 12Mbps (QPSK): -82dbm 9Mbps (BPSK): -85dbm 6Mbps (BPSK): -91dbm 1, 2 Mbps (BPSK, QPSK): - 96dBm 11 Mbps (CCK): -91dBm
	(typically @PER < 10% packet size 1024 @25°C +/- 5°C)	
	Data Modulation Type	BPSK,QPSK, CCK and OFDM
	Power	Voltage: 5V+5%
Security	WEP 64/128 802.1X support Wi-Fi Protected Access (WPA) WPA-PSK , WPA II	
Operating Temp	0°C ~ +50°C	
Storage	-10°C ~ +65°C	
Environment Spec.	Humidity	5%~98% non-condensing
Dimention	8.5*2.2*6.3cm	
Weight	38.5g	