

AirMax2

802.11g High Powered Outdoor CPE

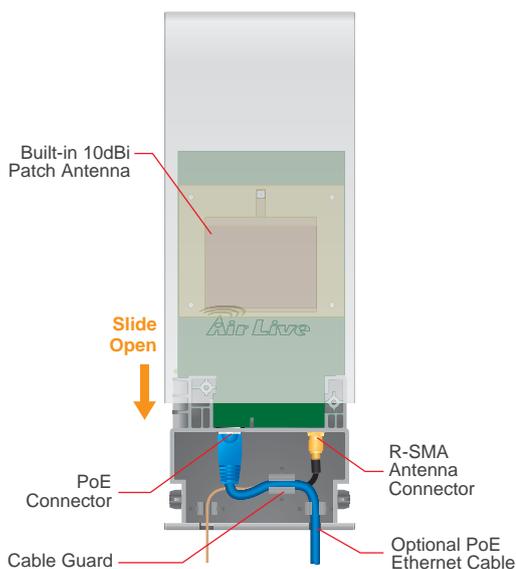
- Wireless-G Outdoor CPE
- Built-in 10dBi Antenna
- Weather-Proof Housing
- ClearSignal Anti-Interference Technology
- Client, AP, Bridge, AP Router, WISP Router, WDS, and Universal Repeater modes
- LED for Antenna Alignments
- R-SMA Connector for External Antenna
- HTTP, HTTPS, SSH, and Telnet Managements
- Long distance 26dBm radio (20dBm in EU)
- Bandwidth Control
- 12V Passive PoE



In 2002, AirLive introduces the first multi-function AP built for WISP applications. It has since help created an industry that thrives on providing Internet Service in a more cost effective and expandable way. The AirMax2 is a wireless outdoor CPE that combines our expertise in WISP products, it is meticulously designed inside out to meet all the outdoor application requirements.

Simple All-In-One Solution

The AirMax2 comes with almost everything you need to build 2.4GHz outdoor connection instantly. The CPE enclosure is built with high grade anti-UV materials for protection from prolonged sunshine and rain. Therefore, it is suitable for both outdoor and industrial applications. Inside the housing is an integrated 10dBi panel antenna projecting in the forward direction. The internal PCBA slides out for easy maintenance. To speed up your installation process, there is also a 4-level LED to assist you with Antenna alignment. The built-in advanced passive Power Over Ethernet will let your AirMax2 operate up to 100 meter distance from power source.

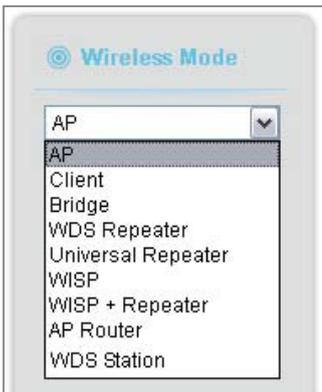


Long Distance Radio

The AirMax2's high powered 11g/b radio can deliver up to 26dBm(20dBm in EU) average output power. It can achieve over 3km using the built-in antenna. If more distance is required, you can attach an external antenna using the R-SMA antenna connector. In a recent outdoor test, the AirMax2 achieved over 25km distance using our WAE-2424GR grid antenna.

Clear Signal Technology

As the 2.4GHz spectrum becomes increasingly crowded, the interference can severely hamper the performance of outdoor wireless equipments. Products that achieve over 100Mbps in laboratory conditions drop to single digit performance in the real outdoor environment. At AirLive, we understand it is the real world performance that counts. That is the reason why we spent over one year to develop the Clear Signal Interference Resistant Technology. Clear Signal Technology uses advanced hardware filtering and sensitivity adjustment to minimize the effects of signal interference. Therefore; the AirMax2 usually stands out in the environment where all other AP fails.



9 Wireless Operation Mode

The AirMax2 can function as an AP, Client, Bridge, Repeater, WISP Router or AP Router. Therefore, you can instantly transform the CPE to different wireless applications. Whether you are building a WISP network or just installing a bridge inside your factory, AirMax2 has the right software functions for you. Simply start by selecting a wireless mode, the AirMax2 will display only options available in that mode. No more guessing and experimenting.



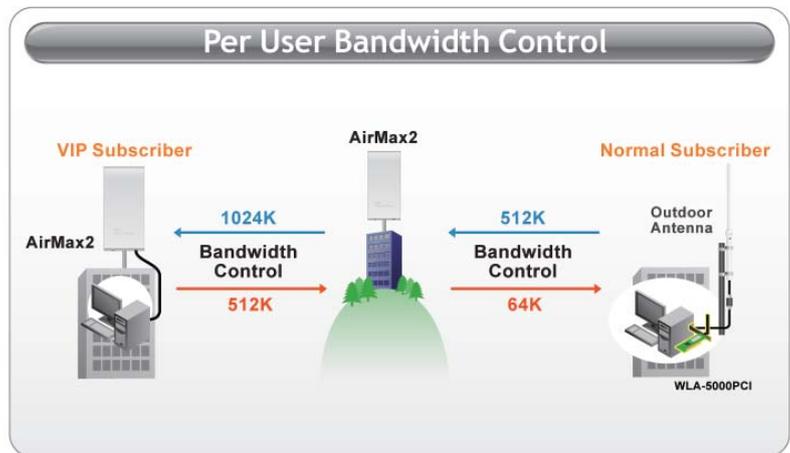
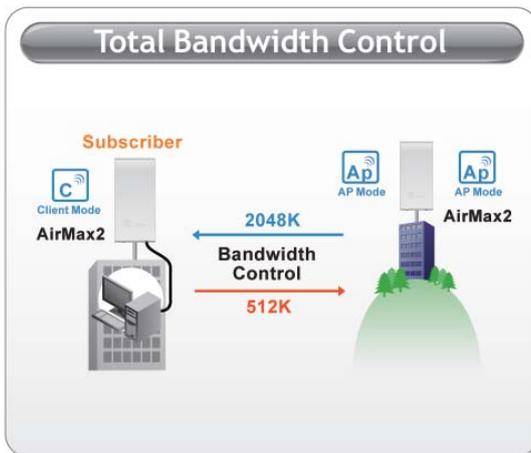
AirLogic System Architecture

The AirMax2 software system is built upon the new AirLogic software architecture. Beneath the system core is our legendary wireless engine that offers superior performance and rich set of functions. It features firmware recovery system, multi-operation wireless mode, bandwidth control, and over 100 other features that make AirLive wireless products famous in the industry. The AirLogic Web Interface integrates all these powerful functions into an extremely easy to use multi-language interface that can change language instantly at any page.



Bandwidth Management

The AirMax2 provides the capability to control total bandwidth or per user's bandwidth. Therefore, the WISP operators can offer different class of connection speeds for different subscription fees – just like the ADSL service!



Standard Strap Pole Mount

Optional Tilting Wall/Ring Mount Kit



Double Mounting System

The AirMax2 is designed to be mounted using the included plastic straps for easy installation. If you require wall mounting or more rigid mounting, you can purchase the optional Metal Wall Mount/Pole Mount Kit. It will allow installer to adjust the tilting angle for more precise antenna alignment.

From the reliable hardware design to its interference resistant capability, AirLive have thought of all the requirements for wireless outdoor applications. If you need an outdoor wireless product that is reliable and easy to install, the AirMax2 is the simple choice.



Specifications

Feature

- 9 Wireless Operation Modes
- Up to 26dBm output power (20dBm in EU)
- Built-in 10dBi Patch antenna
- R-SMA antenna connector, detachable Antenna
- ClearSignal Interference Resistant Technology
- Site Survey Connection Wizard
- 4 Levels LED for antenna alignment
- IP65 Weather Proof housing
- HTTP, HTTPS, SSH, Managements
- 12V Passive PoE System

Hardware

- 802.11g/b Radio
- 4MB Flash, 16MB DRAM
- 12V Passive PoE Kit
- IP-65 Weather Proof Housing
- 4 Color LEDs
- Reset Button

- 1x 10/100Mbps PoE Port
- 1 x R-SMA Antenna Connector

Antenna

- Built-in 10 dBi patch antenna
- Polarization : Vertical
- Antenna Angle : Horizontal 70°, Vertical 38°.
- R-SMA connector for external antenna
- Software switch between internal and external antennas

Frequency Band

- USA (FCC) 11 Channels: 2.412GHz~2.462GHz
- Europe (ETSI) 13 Channels : 2.412GHz~2.472GHz

Power over Ethernet

- Power Adapter Voltage : input 100~240Vac/50~60Hz, output 12V/1A
- Advance Passive PoE (Accept 12 to 22 volts)

- POE Adapter, DC Injector provided
- POE port built-in on the PCB

Transmission Rates

- Data Rate: 54, 48, 36, 24, 18, 11, 5.5, 2, 1 Mbps

Modulation Technology

- 11g Orthogonal Frequency Division Multiplexing (64QAM, 16QAM, QPSK, BPSK)
- 11b Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)

Output Power

- 20dBm(EU), 23dBm(FCC), 26dBm(South America)
- Adjustable in 6 levels

Receiver Sensitivity

- Rx Sensitivity @ 25°C			
- IEEE 802.11b	Min (dBm)	1Mbps	-95
		2Mbps	-91
		5.5Mbps	-90
		11Mbps	-86
- IEEE 802.11g	Min (dBm)	6Mbps	-86
		9Mbps	-86
		12Mbps	-85
		18Mbps	-83
		24Mbps	-81
		36Mbps	-77
		48Mbps	-73
		54Mbps	-71

Mode

- AP, AP Router, WDS Repeater, Universal Repeater
- Client Mode, WISP Router, WDS + Universal Repeater
- WDS Bridge, WDS Station

Software

- 9 Wireless Operation Mode
- Clear Signal Interference Resistant Technology
- Web, HTTPS, SSH, and Telnet Managements
- Interface Bandwidth Control
- IP/MAC Bandwidth Control
- RSSI LED for Antenna Alignment
- DHCP Relay Agent Supported
- Up to 40 Access Control List
- ACK Timeout Adjustment
- Site Survey Connection Wizard
- Ping Watchdog
- Signal Survey for Antenna Alignment
- Static Route and RIP Routing
- Client Isolation, Watchdog, and TX Power Regulation
- 40 MAC Access Control List

Environmental

- Operating temperature: -20~60°C
- Operating humidity (non-condensing): 20~80%
- Storage temperature: -20~65°C Storage humidity: 95% Max

Certificate

- FCC, CE

Product Size(L x W x H (mm))

- 210 x 100 x 32 mm

Ordering Information:

AirLive AirMax 2	802.11g High Powered Outdoor CPE, ETSI
	802.11g High Powered Outdoor CPE, FCC
	802.11g High Powered Outdoor CPE, South America