The AirMax DUO is the latest generation of AirLive Outdoor Base Station that incorporates everything we know about wireless—a feat from the company that starts the WISP industry in 2002 with the first WISP multi-function AP. From its sturdy IP-67 case to the incredible easy-to-use AirLogic interface, it is meticulously designed inside out to be an outdoor device you can use and rely on.

Hi-Power Dual Band

The AirMax DUO includes 2 radios that can deliver up to 28dBm peak power in 5GHz spectrum. The Radio1 works in 11a mode while Radio2 work in 11a/b/g mode. This combination allows one radio for backbone link while the other radio works as the AP for WISP clients.

IP-67 Weatherproof Design

There are too many so-called outdoor products that use indoor graded components which might have low upfront cost, but expensive to maintain and service over the long run. Take one look at the rock solid construction of AirMax DUO, there is no question it is built to last. The IP67 design elements can be found in its waterproof connectors that allow the use of normal Ethernet cable, and the ultra bright waterproof LEDs which display RSSI signal status that can be seen far away. Inside the case is the outdoor graded PCBA that can operate from -20 to 60 degree Celsius. It is the true outdoor graded device that you can install and forget.
The AirMax DUO is not just for WISP, it is also built for bridge applications to connect 2 building’s network wirelessly. For short distance bridge, the built-in Duplex mode can bind 2 wireless radios together to maximize the link speed. For long distance Bridge application, simply turn off one radio and get up to 25km distance.

The AirMax DUO is equipped with PPPoE authentication server. WISP operators can use the built-in local accounts or use a remote radius server for account management.

The AirMax DUO combines authentication, backbone, and base station into one single device.

The AirMax DUO works in Dual Band mode by default. But if you only need the 11g/b function, you can choose the “2.4GHz” only mode and the AirMax DUO will turn into a simple 2.4GHz Outdoor AP instantly.
AirLogic System Architecture

The AirMax DUO software system is built upon the new AirLogic software architecture. The underlying system core is our legendary wireless engine that offers superior performance and rich set of functions. It features firmware recovery system, 14 wireless modes, virtual AP, Tag VLAN, 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.

One Choice for All Outdoor Applications

If your application require IP-67 weatherproof standard; but you don’t know which outdoor device to choose, AirMax DUO is the choice for you. With 14 wireless operation modes and hundreds of feature, you cannot go wrong with the AirMax DUO. In addition, it uses the same software interface as our AirMax2 and AirMax5 CPEs. Together, they form the most powerful and cost effective wireless outdoor solution.

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>- 1 x 11a Radio + 1 x 11a/b/g Radio</td>
<td>- IEEE 802.3af (PoE) compliance</td>
</tr>
<tr>
<td>1 radio 11a de 108Mbps + 1 radio 11a/b/g de 108Mbps</td>
<td>- 8MB Flash, 32MB SDRAM</td>
</tr>
<tr>
<td>- High Output Power in 11a(28dB peak) and 11g/b Mode (23dB in America, 20dB in EU)</td>
<td>- PoE support by one LAN port</td>
</tr>
<tr>
<td>- Up to 14 Wireless Operation Modes</td>
<td>- IP-67 Water Proof Metal Housing</td>
</tr>
<tr>
<td>- 2 LAN Ports</td>
<td><strong>Antenna</strong></td>
</tr>
<tr>
<td>- 2 N-Type Antenna connectors</td>
<td>- 2 x N-Type antenna connectors</td>
</tr>
<tr>
<td>- PPPoE Server</td>
<td><strong>Frequency Range</strong></td>
</tr>
<tr>
<td>- HTTPS, WEB, Telnet, SNMP, and SSH managements</td>
<td>- WLAN1(Radio 1)</td>
</tr>
<tr>
<td>- WDS Site Survey and RSSI Signal Survey</td>
<td>- 802.11a : 5.470 to 5.725 GHz</td>
</tr>
<tr>
<td>- Multi-SSID, VLAN, SNMP</td>
<td>- WLAN2 (Radio 2)</td>
</tr>
<tr>
<td>- Bandwidth Control, TOS, and WMM</td>
<td>- 802.11b/g : 5.470 to 5.725 GHz</td>
</tr>
</tbody>
</table>

**Hardware**

- Dual wireless interface 11a, 11a/b/g + 11a, operation simultaneously.
- RoHS compliant
- Europe (ETSI) : 12
- WLAN2(Radio 2) : 802.11b/g
- USA (FCC) : 11
- Europe (ETSI) : 13
- 802.11a
- USA (FCC) : 12
- Europe (ETSI) : 12

**Power Supply**
- 48V/0.4A Power Over Ethernet Adapter

**Modulation Technology**
- IEEE802.11a 5GHz OFDM
- IEEE802.11b 2.4GHz CCK
- IEEE802.11g 2.4GHz OFDM

**Wireless transfer Data Rate with Automatic Fallback**
- 802.11b: 1, 2, 5.5, 11Mbps
- 802.11g: 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54Mbps
- 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps

**Output Power**
- Average:
  - 23dBm, 200mW
- Peak:
  - 28dBm, 600mW

**RSSI**
- 802.11a
  - 6Mbps @ -92 dBm
  - 9Mbps @ -89 dBm
  - 12Mbps @ -88 dBm
  - 18Mbps @ -86 dBm
  - 24Mbps @ -82 dBm
  - 36Mbps @ -79 dBm
  - 48Mbps @ -73 dBm
  - 54Mbps @ -71 dBm
- 802.11g
  - 6Mbps @ -90 dBm
  - 9Mbps @ -88 dBm
  - 12Mbps @ -88 dBm
  - 18Mbps @ -86 dBm
  - 24Mbps @ -82 dBm
  - 36Mbps @ -79 dBm
  - 48Mbps @ -73 dBm
  - 54Mbps @ -73 dBm

**Software**
- Wi-Fi, WPA, WPA2, WMM compatible interoperability
- WPA-PSK, WPA2-PSK, and Radius Support
- 8 WDS Entries, Bridge Infrastructure Mode, 802.1d Spanning
- 14 Operation Modes
- SNMP v1/v2 support
- SSH, SSH2, HTTPS, Telnet, and Web Managements
- Support adjustable output power
- Client Isolation supported, Hide SSIDree
- Distance and ACK Timeout setting
- User Limitation (Static Load Balancing)
- Ping Watchdog, DFS Control, 802.11d Global Roaming
- PPoE Server, Access Control List
- Multiple SSID, VLAN, TOS
- Device Status: Memory Usage, CPU Consumption, ARP Table
- Traffic Status: Trasmit/Receive/Error Packets, Wireless Client Table
- 152-bit WEP support (Atheros Proprietary)
- Multiple DMZ, Virtual Server, Special Application(Trigger Port), IP Filtering
- Site Survey and Signal Survey connection wizard
- Disable NAT, RIP, Static Route
- Bandwidth Control by IP, IP Group, MAC Address, and P2P(router mode)
- DDNS, NTP Server, UPnP, Syslog
- Ping and Tracerouter utilities
- Bootloader Protection and Emergency Firmware Upload Code in bootloader
- Firmware Upgrade and Configuration Backup/Restore

**Operation Modes**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Radio 1 (11a)</th>
<th>Radio 2 (11a/b/g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual AP</td>
<td>Access Point</td>
<td>Access Point</td>
</tr>
<tr>
<td>Duplex</td>
<td>WDS Bridge</td>
<td>WDS Bridge</td>
</tr>
<tr>
<td>Dual WDS Bridge</td>
<td>WDS Bridge</td>
<td>WDS Bridge</td>
</tr>
<tr>
<td>Separate Bridge</td>
<td>WDS Bridge</td>
<td>WDS Bridge</td>
</tr>
<tr>
<td>AP + Client</td>
<td>Access Point</td>
<td>Wireless Client</td>
</tr>
<tr>
<td>Client + AP</td>
<td>Wireless Client</td>
<td>Access Point</td>
</tr>
<tr>
<td>AP + WDS Bridge</td>
<td>Access Point</td>
<td>WDS Bridge</td>
</tr>
<tr>
<td>WDS Bridge + AP</td>
<td>WDS Bridge</td>
<td>Access Point</td>
</tr>
<tr>
<td>WDS + Gateway</td>
<td>WDS Bridge</td>
<td>Gateway (AP Router)</td>
</tr>
<tr>
<td>Gateway + WDS</td>
<td>Gateway (AP Router)</td>
<td>WDS Bridge</td>
</tr>
<tr>
<td>AP + Gateway</td>
<td>Access Point</td>
<td>Gateway (AP Router)</td>
</tr>
<tr>
<td>Gateway + AP</td>
<td>Gateway (AP Router)</td>
<td>Access Point</td>
</tr>
<tr>
<td>AP + WISP</td>
<td>AP Router</td>
<td>WISP Bridge</td>
</tr>
<tr>
<td>WISP + AP</td>
<td>WISP mode</td>
<td>AP Router</td>
</tr>
</tbody>
</table>
- FCC, CE, IP-67
- 1105 g (without antennas)

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

- 225 x 122 x 225 mm

**Ordering Information:**

**AirLive AirMax DUO**
802.11a/b/g Dual Radio Outdoor Base Station, ETSI
802.11a/b/g Dual Radio Outdoor Base Station, FCC