5 GHz airMAX® AC AP
Models: LAP-120, LAP-GPS

High-Performance Sector AP

Up To 450+ Mbps Real TCP/IP Throughput

Lightweight, Low-Cost Solution
Introducing the airMAX® LiteAP™ AC, the latest high-performance access point with disruptive pricing from Ubiquiti Networks. Featuring an ultra-lightweight form factor, the LiteAP AC was designed to be an affordable cost/performance solution for long-distance, wireless broadband bridging. Each of these models operates in the worldwide, license-free 5 GHz frequency range with high-performance speeds.

The LiteAP AC combines proprietary hardware and software technologies to deliver its breakthrough combination of throughput and range with cost-effective value.

Software
airOS® v8

airOS® v8 is the revolutionary operating system for Ubiquiti® airMAX ac products.

Powerful Wireless Features
- Access Point PtMP airMAX Mixed Mode
- airMAX ac Protocol Support
- Long-Range Point-to-Point (PtP) Link Mode
- Selectable Channel Width
  - PtP: 10/20/30/40/50/60/80 MHz
  - PtMP: 10/20/30/40 MHz
- Automatic Channel Selection
- Transmit Power Control: Automatic/Manual
- Automatic Distance Selection (ACK Timing)
- Strongest WPA2 Security

Usability Enhancements
- airMagic® Channel Selection Tool
- Redesigned User Interface
- Dynamic Configuration Changes
- Instant Input Validation
- HTML5 Technology
- Optimization for Mobile Devices
- Detailed Device Statistics
- Comprehensive Array of Diagnostic Tools, including RF Diagnostics and airView® Spectrum Analyzer

Application Examples

In a cost-effective WISP deployment, the LAP-GPS is used as an Access Point in an airMAX ac Point-to-MultiPoint network.
Hardware Overview

The LiteAP AC delivers up to 450+ Mbps real TCP/IP throughput and features an efficient form factor.

**Quick Installation** Minimal fasteners simplify installation. No tools are needed; only a single wrench is required for pole-mounting.

**Versatile Mounting** The ball-joint mount of the LiteAP AC provides adjustment flexibility for versatile mounting options.

**Efficient Design** The LiteAP AC features a lightweight antenna with an integrated radio in a sleek design.

**Gigabit Ethernet** The LiteAP AC delivers high throughput over its wired connection.

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Mobile App Support

The LAP-GPS integrates a separate Wi-Fi radio for fast and easy setup using your mobile device.

**Accessing airOS via Wi-Fi**

The Ubiquiti Network Management System (UNMS™) app* provides instant accessibility to the airOS configuration interface and can be downloaded from the App Store® (iOS) or Google Play™ (Android™). UNMS allows you to set up, configure, and manage your device, and offers various configuration options once you’re connected or logged in.

* UNMS app support for the LAP-120 requires the U-Installer, sold separately.

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GPS Sync Support

Precise GPS frame synchronization enables co-located LAP-GPS devices to transmit and receive data without interfering with each other, allowing for better frequency reuse and increased network stability.
**LAP-120**

- **Dimensions (Mount Not Included)**: 452.3 x 78.7 x 54.4 mm (17.81 x 3.10 x 2.14"
- **Weight (No Mount)**: 420 g (14.82 oz)
- **Mounting Kit**: Pole Mounting Kit (Included)
- **Networking Interface**: (1) 10/100/1000 Ethernet Port
- **Memory**: 64 MB
- **Max. Power Consumption**: 7W
- **Max. TX Power**: 25 dBm
- **Antenna Gain**: 16 dBi
- **Power Supply**: 24V, 0.5A Gigabit PoE Adapter (Included)
- **Power Method**: Passive PoE (Pairs 4, 5+; 7, 8 Return)
- **Processor Specs**: Atheros MIPS 74Kc, 533 MHz
- **Shock and Vibration**: ETSI300-019-1.4
- **ETSI Specification**: EN 302 326 DN2
- **ESD/EMP Protection**: ± 24 kV Contact / Air
- **RoHS Compliance**: Yes
- **Operating Temperature**: -40 to 70° C (-40 to 158° F)
- **Operating Humidity**: 5 to 95% Noncondensing
- **Certifications**: FCC, IC, CE

### Output Power: 25 dBm

<table>
<thead>
<tr>
<th>Modulation</th>
<th>Data Rate</th>
<th>Avg. TX</th>
<th>Tolerance</th>
<th>Modulation</th>
<th>Data Rate</th>
<th>Sensitivity</th>
<th>Tolerance</th>
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<tbody>
<tr>
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<tr>
<td>1x BPSK (½)</td>
<td>25 dBm</td>
<td>± 2 dB</td>
<td>1x BPSK (½)</td>
<td>-96 dBm</td>
<td>± 2 dB</td>
<td></td>
<td></td>
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<tr>
<td>2x QPSK (½)</td>
<td>25 dBm</td>
<td>± 2 dB</td>
<td>2x QPSK (½)</td>
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<td>2x QPSK (¾)</td>
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<td>± 2 dB</td>
<td>2x QPSK (¾)</td>
<td>-92 dBm</td>
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<td></td>
<td></td>
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<tr>
<td>4x 16QAM (½)</td>
<td>25 dBm</td>
<td>± 2 dB</td>
<td>4x 16QAM (½)</td>
<td>-90 dBm</td>
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<tr>
<td>4x 16QAM (¾)</td>
<td>25 dBm</td>
<td>± 2 dB</td>
<td>4x 16QAM (¾)</td>
<td>-86 dBm</td>
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<tr>
<td>6x 64QAM (½)</td>
<td>25 dBm</td>
<td>± 2 dB</td>
<td>6x 64QAM (½)</td>
<td>-83 dBm</td>
<td>± 2 dB</td>
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<tr>
<td>6x 64QAM (¾)</td>
<td>24 dBm</td>
<td>± 2 dB</td>
<td>6x 64QAM (¾)</td>
<td>-77 dBm</td>
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<tr>
<td>6x 64QAM (¾)</td>
<td>23 dBm</td>
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<td>6x 64QAM (¾)</td>
<td>-74 dBm</td>
<td>± 2 dB</td>
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<td></td>
</tr>
<tr>
<td>8x 256QAM (¾)</td>
<td>21 dBm</td>
<td>± 2 dB</td>
<td>8x 256QAM (¾)</td>
<td>-69 dBm</td>
<td>± 2 dB</td>
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<tr>
<td>8x 256QAM (¾)</td>
<td>21 dBm</td>
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<td>8x 256QAM (¾)</td>
<td>-65 dBm</td>
<td>± 2 dB</td>
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### Operating Frequency (MHz)

<table>
<thead>
<tr>
<th></th>
<th>Worldwide</th>
<th>USA</th>
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<tbody>
<tr>
<td>Operating Frequency (MHz)</td>
<td>5150 - 5875</td>
<td>5150 - 5850</td>
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</table>
LAP-GPS

Dimensions (Mount Not Included) | 360.98 x 124.57 x 71.28 mm (14.21 x 4.90 x 2.81")
Weight (No Mount) | 752 g (1.66 lb)
Mounting Kit | Pole Mounting Kit (Included)
Networking Interface | (1) 10/100/1000 Ethernet Port
Memory | DDR2 64 MB
Max. Power Consumption | 7.1W
Max. TX Power | 25 dBm
Antenna Gain | 17 dBi
Power Supply | 24V, 0.3A PoE Adapter (Included)
Power Method | Passive PoE (Pairs 4, 5+, 7, 8 Return)
Processor Specs | Atheros MIPS 74Kc, 533 MHz
Shock and Vibration | ETSI300-019-1.4
ETSI Specification | EN 302 326 DN2
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</table>

Operating Frequency (MHz)

| Worldwide | 5150 - 5875 |
| USA       | U-NII-1 5150 - 5250 | U-NII-3 5725 - 5850 |

Management Radio (MHz)

| Worldwide | 2412 - 2472 |
| USA       | 2412 - 2462 |