



## Product Overview



The AP Duo series of carrier-grade radios marks the launch of the dual radio Deliberant product line. This product features a powerful, dual-radio network processing board pre-loaded with a versatile and robust Linux-based software package, all enclosed in a rugged cast aluminum enclosure. The unit comes complete with two high power Atheros-based mini-PCI radio cards capable of operating in the 2.4 or 5 GHz bands. The AP Duo also features two external N-connectors, allowing for flexibility in antenna configuration to match your application. The dual-interface design presents a variety of configuration possibilities including dual AP, AP repeater, and redundant PtP bridge with STP.

The powerful core OS offered by the AP Duo delivers an abundance of flexibility, stability, and management features that are not present in other WISP products on the market today. This robust software platform coupled with the versatility in hardware configuration makes the AP Duo a universal, customized radio solution for almost any wireless application.



## Specifications

### WLAN Standard

802.11a, 802.11b, 802.11g

### Radio Scheme

802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)

802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)

802.11b: DSSS (CCK, DQPSK, DBPSK)

### Frequency Range

2.4 GHz ~ 2.497 GHz (Country dependent)

4.9 GHz ~ 5.85 GHz (Country dependent)

### RF Output Power

RF Port 1: Up to 24dBm - Adjustable (802.11a/b/g)

RF Port 2: Up to 24dBm - Adjustable (802.11a/b/g)

### Receiver Sensitivity

802.11a: -93 +/- 2dBm @ 6Mbps, -74 +/- 2dBm @ 54 Mbps

802.11b: -99 +/- 2dBm @ 1Mbps, -90 +/- 2dBm @ 11 Mbps

802.11g: -93 +/- 2dBm @ 6Mbps, -75 +/- 2dBm @ 54 Mbps

### Data Rate

802.11a: 54 / 48 / 36 / 24 / 12 / 9 / 6 Mbps

802.11g: 54 / 48 / 36 / 24 / 12 / 9 / 6 Mbps

802.11b: 11 / 5.5 / 2 / 1 Mbps

### Power Supply

Power over Ethernet, 18V DC / 1.1 A Power Supply Included

On-board Ethernet surge protection



## Key Features

- Dual-Radio with adjustable RF Output Power
- Rugged cast aluminum enclosure
- Full, half, and quarter bandwidth channels
- Multi-BSSID support (VSSID) with VLAN tags
- PoE built-in for single cable installation
- Configurable Multi-mode AP
  - AP mode/AP client mode
  - WDS
  - AP router/AP client router
  - AP repeater
  - Redundant PtP bridge with STP
- Latest security technologies
- Comprehensive software features
  - IP routing: static and dynamic (OSPF/RIP)
  - DHCP client/server/relay
  - DNS relay/proxy
  - 802.1Q VLAN Tagging/Untagging
  - Up to 16 Virtual Radios
  - Wireless QoS Support (WMM)
- Comprehensive management features
  - Web GUI
  - Command line management via SSH
  - RCMS server support for configuration
  - SNMP V1/2/3 with traps supporting MIBs: 802.1, 802.1x, MIBII
  - Syslog support

### Antenna

2 N-Connectors

### Operating Mode

AP, AP Client

WDS (Wireless Repeater, Point-to-Point, Point-to-Multi-Point)

AP Router, AP Client Router, AP Repeater

Redundant PtP Bridge with STP

### Security

Password Protection

WPA2 / WPA2 Personal/Enterprise (802.11i, 802.1x)

MAC Filtering

Hidden SSID Support

Static and Dynamic WEP

### Enclosure

Rugged Cast Aluminum (22 cm. x 22 cm. x 8.25 cm.)  
meets IP67 standards

### Operating Environment

Temperature -30C ~ 60C

Humidity 10 ~ 90% (non-condensing)

### Certification

FCC/CE

### Warranty

2-Years

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