

# AP Quad

# 2.4/5 GHz Quad-Radio Connectorized Base Station

## Product Overview



The AP Quad is the most robust and versatile radio on the Deliberant carrier-grade product line. Featuring four high-powered Atheros-based mini-PCI radios operating in the 2.4 and 5 GHz spectrums, the AP Quad presents an abundance of application options. Among the various operating scenarios available, the unique four radio design can be used for redundant dual-band backhauling, multiple PtP links (WDS) with dual-band APs, and many other advanced configuration options—all in one unit! The AP Quad features 4 N-Connectors for custom antenna application, and comes encased in a rugged cast aluminum enclosure.



The powerful core OS offered by the AP Quad 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 Quad 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, 2, 3, 4: Up to 24 dBm - 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

### Antenna

4 N-Connectors

## Key Features

- Quad-Radio design with adjustable 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

### 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