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.

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
  - WNMS server support for configuration
  - SNMP V1/2/3 with traps supporting MIBs: 802.1, 802.1x, MIBII
  - Syslog support

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, 48V DC / 1 A Power Supply Included
On-board Ethernet surge protection

Antenna
4 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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FUNCTION

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