

AP 900 Duo

900 MHz + 2.4/5 GHz Dual-Radio Connectorized Base Station

Product Overview



The AP 900 Duo is a first-to-market solution for delivering 900 MHz + 802.11a/b/g capabilities, all in one device! The unique design of the AP 900 Duo offers an array of configuration capabilities including dual-radio, mixed-mode access point provisioning, mixed-mode wireless repeater, and many more. The AP 900 Duo features Atheros-based chipset radios, enabling full, half, and quarter bandwidth channel support for superior link connectivity. This product is driven by a powerful, dual-radio network processing board and is enclosed in a rugged cast aluminum, hinged enclosure. The AP 900 Duo also features two external N-connectors, allowing for custom antenna applicability.

The AP 900 Duo ships pre-loaded with a powerful, Linux-based core operating system, providing 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 900 Duo a universal, customized radio solution for a variety of wireless applications.

Specifications

WLAN Standard

900 MHz + 802.11a/b/g

Radio Scheme

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

802.11b: DSSS (CCK, DQPSK, DBPSK)

Proprietary 900 MHz based on 802.11b/g CCK/OFDM

Frequency Range

2.4 GHz ~ 2.497 GHz (Country dependent)

4.9 GHz ~ 5.85 GHz (Country dependent)

868 MHz ~ 928 MHz (Country dependent)

RF Output Power

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

RF Port 2: Up to 25 dBm - Adjustable (900 MHz)

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

900 MHz: -92 +/- 2dBm @ 6Mbps, -72 +/- 2dBm @ 54Mbps

Data Rate

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

802.11b: 11 / 5.5 / 2 / 1 Mbps

900 MHz: 54 / 48 / 36 / 24 / 12 / 11 / 9 / 6 / 5.5 / 2 / 1 Mbps

Key Features

- Dual-Radio design (900 MHz + 2.4/5 GHz) with adjustable RF Output Power
- Rugged cast aluminum hinged 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
 - DHCP client/server/relay
 - DNS relay/proxy
 - Stateful inspection firewall
 - MAC/IP filtering
 - Digital device certificates
- 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

Power Supply

Power over Ethernet, 18V DC / 1.1 A Power Supply Included
On-board Ethernet surge protection

Antenna

2 N-Connectors

Operating Mode

Dual 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

WPA / WPA2 Personal/Enterprise

MAC Filtering

Hidden SSID Support

802.11i, 802.1x

Static and Dynamic WEP

Enclosure

8"x10"x4" cast aluminum (hinged)

Operating Environment

Temperature -30C ~ 60C

Humidity 10 ~ 90% (non-condensing)

Certification

FCC