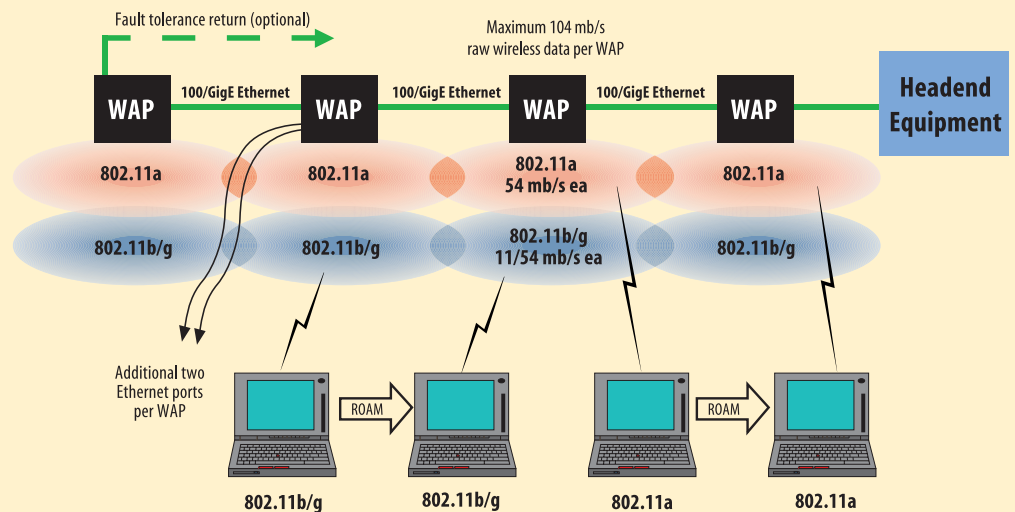


Wireless Access Point (WAP)

High-performance, secure, manageable and flexible wireless connectivity for commercial and military applications.

Formation's WAP sets a new standard in wireless connectivity through the incorporation of Cisco Aironet® 1200 Series 802.11 a/b/g Access Point. The WAP provides network connectivity while complying with the cost, specifications, interfaces, and reliability airline and system integrators are seeking.

- Cisco Aironet® 1200 Series 802.11 a/b/g Access Point running Cisco IOS® Software with a roadmap for continued support of network, connectivity, protocols and security to meet evolving client demands
- ARINC 763 compliant design that can function in cabin wireless LAN or terminal wireless LAN modes
- Flexible configuration to meet your application-specific requirements
- Optional GigE Ethernet fault tolerant aircraft backbone with the bandwidth to serve Internet, Video, VoIP and more to the entire cabin
- Avionics qualified (DO-160D)



Formation's WAP features dual 802.11a and 802.11 b/g, GigE, fault tolerance and roaming, making it one of the most advanced WAP systems for commercial and military applications. Utilizing industry-leading COTS technology enables cost containment and an easy upgrade to protect current and future network investments.

The option of the 802.11a with its higher bandwidth and 12 non-overlapping channels expands the available aircraft wireless channels from 3 to 15 and boosts raw performance 25X.

WAP Technology

Formation's WAP features an ARINC 763 compliant-design that goes beyond the features and performance envisioned in that standard. Configurable and upgradeable as either 802.11 a, 802.11 b/g, or 802.11 a/b/g with or without a GigE Ethernet connectivity, the WAP provides flexibility to meet wireless connectivity requirements.

The unit can function in CWLU (wireless to passengers and crew) or TWLU (wireless to the gate) modes. With full support of dynamic roaming between access points, dropped connections and passenger complaints caused by blocked reception are virtually eliminated. The

wireless functionality is accomplished via a Cisco Aironet® 1200 Series 802.11 a/b/g Access Point running the same Cisco industry-leading IOS® software used in their high-end wireless systems.

MODULAR DESIGN APPROACH

Formation's WAP is designed to evolve with industry changes in radio standards. By choosing the Aironet 1200 with its Cardbus and Mini-PCI radio slots, Formation is able to quickly incorporate new Cisco radios into the WAP design. This strategy represents a fast-follow approach to the COTS marketplace.

Specifications:

MECHANICAL – ARINC 763 Compliant Design with Passive Cooling

Dimensions: 11.5"H x 6.85"W x 2.65" D

Weight: 4.7 lbs

Power: Less than 15 Watts with 802.11a/b/g Radios installed
Less than 10 Watts with 802.11b/g Radio installed

DUAL MODE POWER SUPPLY

AC Input: 115VAC 400Hz

DC Input: 28VDC

Holdup: 200 msec

INTERFACES

Ethernet 2 – 10/100 10BaseT

2 – GigE (optional)

Discrete Inputs: On/Off Control of Power Supply
On/Off Control of Radios

Discrete Outputs: Power Supply Status
Radio Status

ENVIRONMENTAL – Qualified per DO-160D. Select categories are listed below:

Test	Category	Test	Category
Temperature and Altitude	A2 (High Operational Temp 55°C)	Power Input	A(WF)H ABD100.1.8 Appendix 1 and ABD100.1.9 Chapter 5.1.3
Operational Shocks and Crash Safety	B	Emissions of Radio Frequency Energy	M D6-36440
Operational Shocks	B		
Crash Safety Impulse	B		
Crash Safety Sustained			
Vibration (Random)	SC Standard Random		

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