

(n M A P)

802.11n MULTIFUNCTION ACCESS POINT



KEY BENEFITS:

Radio certification obtained for legal operation of nMAP on aircraft

Client roaming support between nMAPs

End to end network security with latest 802.1x authentication, WPA2 or WPA

Works concurrently with any IEEE 802.11a/b/g and 802.11n compliant client devices (e.g. laptop computer or personal digital assistant)

Up to 16 concurrent VSCs & 64 VLANs (IEEE 802.1q) for separate user networks

Configurable QOS and security policies per VSC

Mutual authentication via PEAP, EAP-FAST, EAP-TLS, EAP-TTLS, or EAP-SIM

SSL protected WEB-based authentication

NAT support to map between two sets of IP addresses

SNMP (MIB), CLI, and SOAP support for remote session management and control

Proven wireless multicast of streaming multimedia

Continuous RF security scan and full performance client access services in same unit

Creates wireless LAN as access point or used to manage user logins as access controller with firewall and routing capabilities.

Each nMAP contains two radios. One radio provides IEEE 802.11a/b/g/n operation. A second radio provides IEEE 802.11a/b/g operation. IEEE 802.11n allows data transfer at rates up to 300 Mbps using diversity. Customized network and user group setups are possible using VSC (Virtual Service Community) that have configurable SSIDs, QOS, security, and filtering. VSC's may be used to establish secure access for passengers as well as flight & maintenance crew. Two modes of operation are supported:

Access Point (CWLU) mode allows clients to connect to aircraft LAN via intelligent bridging that restricts client traffic to only flow to and from the access controller. Supports client roaming.

Access Controller (Enhanced CWLU) mode used in the absence of a router, provides access control with robust firewall, router functionality, as well as access point functionality.

WIRELESS



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KEY DESIGN FEATURES:

ARINC 763 (Network Server System) compliant

ARINC 665 compliant

IEEE 802.11a/b/g/n and 802.11a/b/g compliant

Compact, waterproof design

Secure HTTPS interactive WEB based interface to software management tool

Proven reliability, No maintenance required

Software upgradeable to support evolving security, connectivity, and authentication protocols

Dual band (2.4 & 5 GHz) cabin antenna (ordered separately)

Open standards based solution for hardware and software

IP strap pin configuration allows physical control the IP address of up to 7 nMAP's

PART NUMBERS:

Part No.	Application
902693-1	IEEE 802.11a/b/g/n operation, dual radio
901167-2	Cabin antenna, ordered separately

TECHNICAL SUMMARY:

	Capabilities
Interfaces:	1000BaseT Ethernet : 2
	Discretes : 2 Input 2 Output
	IP strapping : 3 discrete lines
Power:	Primary : 97-134 Vac, 360-800 Hz and 18-32 Vdc
	Power Consumption : 18 Watts
Physical:	Dimensions : ARINC 763, 11.5"W x 7"H x 2"D (29,2 cm x 17,8 cm x 5,1 cm)
	Weight : 3.8 lbs. (1,7 kg)
Key Qualification Performance:	Thermal : DO160D, Section 4, Category A1 (designed to A2)
	Vibration : DO160D, Section 8, Category R, curve C/C1
	Power Input : DO160D, Section 16, Category A(WF)
	Radiated RF Emissions : DO160D, Section 21, Category M plus HF notch