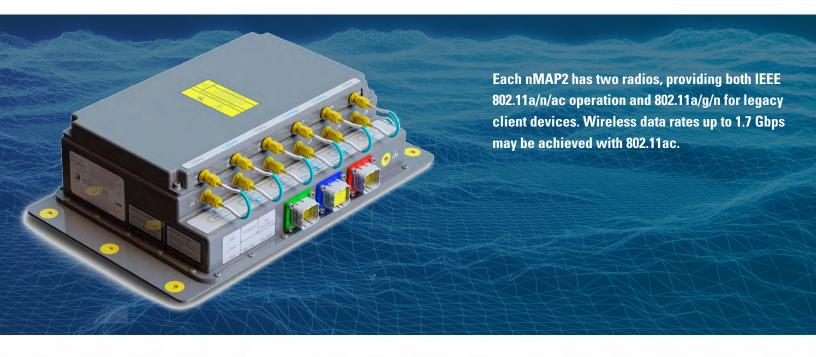
nMAP2 802.11ac MULTIFUNCTION ACCESS POINT



IEEE802.11ac WIRELESS FEATURING COGNITIVE HOTSPOT (CHT) TECHNOLOGY

nMAP2's are aware of their environment and adapt to cabin environments. By exchanging information with neighboring nMAP2's, they manage available resources, prevent interference, and balance the wireless network. Settings to guarantee QoS and improve overall capacity are available.

Two modes of operation are supported:

Access Point (CWLU) mode allows clients to connect to aircraft LAN via intelligent bridging.

Access Controller (Enhanced CWLU) mode adds DHCP server with routing, traffic control, and prioritization for different user VLANS or traffic to CWLU operation.

nMAP2 Features and Functions:

- 5" Integrated or detached antenna assembly reduces cost, weight, & size
- Intelligent client roaming
- Auto wireless power control
- Auto channel assignment
- Auto Load Balancing & Interference Mitigation
- Automatic Failure Recovery
- The latest advanced end to end network security
- Radio certifications for legal nMAP2 operation
- Up to 16 concurrent profiles & 64 VLANs (IEEE 802.1q) for separate user networks
- Configurable and guaranteed QOS per profile
- Mutual authentication via PEAP, EAP-FAST, EAP-TLS, EAP-TTLS, or EAP-SIM)



KEY DESIGN FEATURES

FEATURES:

- ARINC 763-3, 836, and 628a Part 1
- Loadable software
- · Compact, waterproof design
- Proven reliability, No maintenance
- IP strap pin configuration allows physical control the IP address of nMAP2's

TECHNICAL SUMMARY

WIRED INTERFACES:

ETHERNET: Two IEEE 802.3ab 1000 BaseT (autosensing) Relay Fail-Over for nMAP2 Fault Recovery DISCRETES: Two Input (weight on wheels interface) IP STRAPPING: Control IP address for up to 16 nMAP2's

POWER:

Primary 97-134 Vac, 360-900 Hz and 18-36 Vdc Power Consumption: 20 W nominal (26 W max)

SECURITY/VPN:

VPN: IPSec with IKEv1, IKEv2, NAT Traversal; SSLv3 Open VPN client and server, PPTP, L2TP; 5 VPN Tunnels

ENCRYPTION: DES, 3DES and AES

AUTHENTICATION: RADIUS, TACACS+, SCEP MAC Address Filtering; VLAN support; Ethernet Isolation; Stateful inspection firewall with scripting

ROUTER/FIREWALL:

NAT, NAPT, Ethernet bridging Routing: PPP, PPPoE, GRE, RIP, OSPF, SRI, BGP, iGMP (multicast) IP Failover: VRRP, VRRP+TM; RSTP DHCP, Dynamic DNS client

MANAGMENT:

HTTP, HTTPS SMTP, SNMP (v1/v2c/v3), SSH CLI and SOAP (optional)

PHYSICAL:

Weight: 3.3 lbs. (1.5 kg) nMAP2, 0.75 lbs. (0.34kg) antenna assembly

Dimensions: nMAP2 2.28" (57 mm) H x 8.89" (226mm)

L x 6.39" (162mm) W

Mounting plate 11.50" (292mm) L x 6.97" (177mm) W nMAP2 + antenna assembly height 2.90" (74mm)

KEY QUALIFICATION PERFORMANCE

THERMAL:

DO160G, Section 4, Category A2

VIBRATION:

DO160G, Section 8, Category R, curve C/C1

POWER INPUT:

DO160G, Section 16, Category A (WF) for AC, Category A for DC

RADIATED RF EMISSIONS:

DO160G, Section 21, Category M plus HF notch

PART NUMBERS

PART NO. DESCRIPTION

903920-2 nMAP2

903978-1 Antenna Assembly

903920-1 nMAP2 + Antenna Assembly