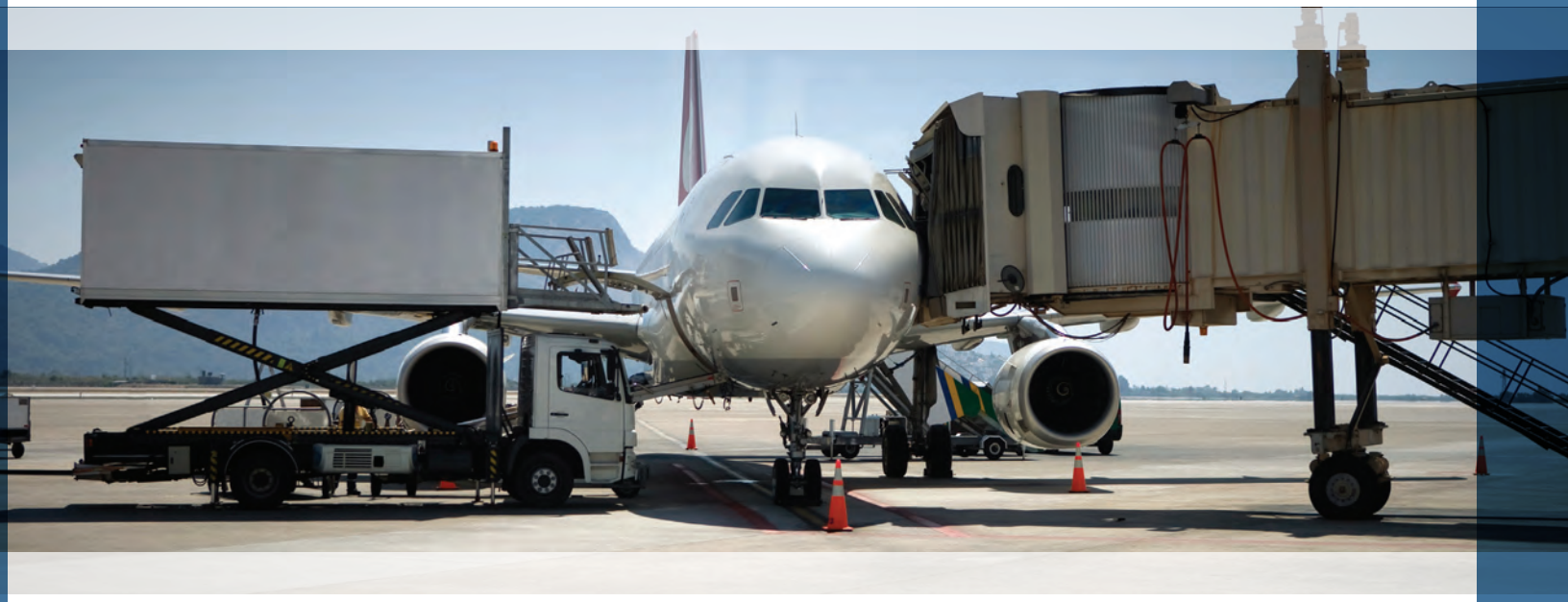
(nMAP2)

802.11ac MULTIFUNCTION ACCESS POINT



IEEE 802.11ac WIRELESS FEATURING COGNITIVE HOTSPOT (CHT) TECHNOLOGY

WIRELESS

Each nMAP2 has two radios, providing both IEEE 802.11a/n/ac operation and 802.11a/g/n for legacy client devices. Wireless data rates up to1.7 Gbps may be achieved with 802.11ac.

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.

KEY BENEFITS:

- 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

VT Miltope
A company of VT Systems

3800 Richardson Road South,
Hope Hull, AL 36043

p :334 284 8665 f: 334 613 6302
www.miltope.com

(nMAP2)

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WIRELESS

nMAP2 with Antenna Assembly
Part No: 903920-1

KEY DESIGN 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

PART NUMBERS:

Part No.	Description
903920-2	nMAP2
903978-1	Antenna Assembly
903920-1	nMAP2 + Antenna Assembly

TECHNICAL SUMMARY:

Wired Interfaces	
Ethernet	Two IEEE 802.3ab 1000 BaseT (auto-sensing) Relay Fail-Over for nMAP-2 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
Management	HTTP, HTTPS SMTP, SNMP (v1/v2c/v3), SSH CLI and SOAP (optional)
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
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)