IEEE 802.11ac FEATURING: WAVE 2, CHT, EMBEDDED SERVER AND CYBER SECURITY

Each nMAP3 has two radios, providing both IEEE 802.11a/n/ac WAVE 2 operation and 802.11g/n for legacy client devices. Wireless data rates up to 7 Gbps may be achieved with 802.11ac WAVE 2.

This MAP3 is the next generation to the popular nMAP2, with the following enhancements.

**WAVE 2**: IEEE 802.11ac WAVE 2 hardware and software upgrade driving faster data throughput.

**CHT**: Enhanced Cognitive Hotspot™ Technology (CHT) optimizing wireless cabin communications.

**Server**: Embedded 2 TB storage server providing distributed content caching and fast access across the cabin network. (Optional)

**Cyber Security**: Advanced cyber security intrusion detection protecting data communications. (Optional)

**KEY BENEFITS:**

Integrated or detached antenna assembly reduces cost, weight, & size

Intelligent client roaming

Auto Wireless Power Control & Channel Assignment

Auto Load Balancing & Interference Mitigation

Automatic Failure Recovery

Local Embedded Content Storage

The latest advanced RazorSecure Delta security

Radio certifications for legal MAP3 operation

Up to 8 concurrent profiles & 32 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

PRELIMINARY DATA: Subject to change without notice
MAP3 with Antenna Assembly
Part No: To Be Assigned

PRELIMINARY DATA: Subject to change without notice

KEY DESIGN FEATURES:
- ARINC 763-3, 838, and 628a Part 1
- Loadable software
- Compact, waterproof design
- Proven reliability, No maintenance
- IP strap pin configuration allows physical control of the IP address of MAP3's

PART NUMBERS:

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TECHNICAL SUMMARY:

Wired Interfaces
- Ethernet
  - Two IEEE 802.3ab 1000BaseT (auto-sensing)
  - Relay Fail-Over for MAP3 Fault Recovery
- Discretes
  - Two Inputs (weight on wheels interface)
- IP strapping
  - Control IP address for up to 16 MAP3'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, SRT, 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) MAP3, 0.75 lbs. (0.34 kg) antenna assembly
- Dimensions: MAP3 2.28” (57 mm) H x 8.89” (226 mm) x 6.39” (177 mm) W
  - Mounting Plate 11.50” (292 mm) L x 6.97” (177 mm) W
  - MAP3 + antenna assembly height 2.90” (74 mm)