

MAP3 WAVE 2 MULTIFUNCTION ACCESS POINT



Each MAP3 cabin wireless access point 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

High Performance, Fast and Secure Cabin Wireless with Data Storage.

Automates data delivery without the delays and costs associated with human intervention. cTWLU provides either IEEE 802.11b/g/n or 802.11ac wireless operation plus 3G/4G cellular operation.

MAP3 Features and Functions:

- IEEE 802.11ac Multi-user MIMO (MU-MIMO) WAVE 2 speeds
- The latest advanced RazorSecure Delta cyber security
- Enhanced Galgus Cognitive Hotspot™ Technology (CHT) Optimization
- Local Embedded Data Storage
- 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
- Country 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

SPECIFICATIONS

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 MAP3's

Custom expansion connector allows the rapid development of "expansion packs" to meet individual customer's functional and physical interface needs:
Two USB 2.0 High Speed ports, One RS-232 serial port (3-wire), One Ethernet port 10/100/1000, One Audio input/output, One SMBus with HW assisted Interrupt-
One I2C with HW assisted Interrupt, Application level accessible GPIO, 12V Input Power.

WIRED INTERFACES:

ETHERNET: Two IEEE 802.3ab 1000 BaseT (auto-sensing) Relay Fail-Over for MAP-3 Fault Recovery
DISCRETES: Two Input (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: TRADIUS, TACACS+, SCEP
MAC Address Filtering; VLAN support; Ethernet Isolation Stateful inspection firewall with scripting

ROUTER/FIREWALL:

NAT, NAT, 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)

PHYSICAL:

Weight: 3.3 lbs. (1.5 kg) nMAP3, 0.75 lbs. (0.34kg) antenna assembly
Dimensions: nMAP3 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
MAP3 + antenna assembly height 2.90" (74mm)

ENVIRONMENTALS

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