XMAP 802.11ax MULTIFUNCTION ACCESS POINT



xMAP highlights:

802.11ax: Exceptional performance for the dense aircraft cabin environment. Incorporates two radios configurable in any combination of 5.0GHz and/or 2.4GHz (i.e. 5.0/2.4, 5.0/5.0 or 2.4/2.4)

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

Cybersecurity: Advanced cyber security intrusion detection protecting network communications. (Optional)

Fiber: Fiber optic interface for fast throughput.

Hotspot 2.0: Intelligent client connection & roaming.

Server: Embedded 4 TB SSD server providing distributed content caching and fast access across the cabin network. Employs powerful processing capable of managing 50 plus simultaneous high bandwidth video streams. (Optional)

WPA3: The latest 802.11 wireless connectivity security protocol.

xMAP Features and Functions:

- IEEE 802.11ax Multi-User MIMO (MU-MIMO)
- 4 x 4 MIMO antenna array
- Optimized for dense aircraft cabin installations
- The latest advanced RazorSecure Delta cybersecurity
- Enhanced Galgus Cognitive Hotspot[™] Technology (CHT)
 Optimization
- Hotspot 2.0 intelligent client connection & roaming
- WPA3 wireless connectivity security protocol
- Local Embedded Data Storage
- Integrated antenna assembly reduces cost, weight & size
- Auto Wireless Power Control & Channel Assignment
- Auto Load Balancing & Interference Mitigation
- Automatic Failure Recovery
- Country radio certifications for legal xMAP operation
- Up to 8 concurrent profiles & 32 VLANs (IEEE 802.1q) for separate user networks
- Configurable and guaranteed QoS per profile



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 of the IP address of multiple xMAPs

WIRED INTERFACES:

ETHERNET: Two IEEE 802.3ab 1000 BaseT (autosensing) Relay Fail-Over for xMAP Fault Recovery

DISCRETES: Two Input (weight on wheels interface)

IP STRAPPING: Control IP address for up to 8 xMAPs

FIBER OPTIC INTERFACE:

TBD. Fiber Optic interface compatible with ARINC specifications.

SECURITY/VPN:

WPA3

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, 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: 4.0 lbs. (1.8 kg)

Dimensions: 2.90" (74 mm) H x 8.89" (226 mm) L \times

6.39" (162mm) W

Mounting plate 11.50" (292 mm) L x 6.97" (177 mm) W

DO-160G CERTIFICATION SUMMARY -

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

PRELIMINARY: Subject to change without notice