

# CAB-N-CONNECT™ A200

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## 802.11ax WiFi 6 Cabin Wireless Access Point

- ▶ Advanced Tri-Radio Technology including internal integrated antennas, Adaptive Intelligent RF Monitoring & Management features
- ▶ Backwards compatible to 802.11 a/b/g/n/ac
- ▶ Dedicated Smart Sensor Radio for continuous security and performance
- ▶ Highest Level of Security with WPA3 security certifications
- ▶ Qualified to DO-160G

POSSIBILITIES START HERE



# CAB-N-CONNECT™ A200

The latest generation Cab-n-Connect A200 provides the highest level of efficiency and performance based on 802.11ax WiFi 6 technology, optimized for video streaming in dense multi-client applications within the aircraft cabin. With aggregated data rates up to 4.8 Gbps in the 5 GHz band and concurrent 2.4 Gbps in the 2.4 GHz band, this next gen A200 CWAP is optimally suited for high density environments, providing intelligent edge capabilities with the highest level of client services without compromising security monitoring. The A200 is the only avionics certified CWAP that provides a dedicated, dual-band sensor that continuously scans and can detect security threats real-time eliminating the risk of vulnerability or attacks, while also optimizing RF performance automatically. The A200 delivers the highest level of security services, beginning with support for the Wi-Fi Alliance WPA3 security certifications and also provides a stateful L2-L7 DPI firewall for context based access security. The onboard WiNG 7 Enterprise software provides the most comprehensive and robust services in the industry. Its SMART-RF

module intelligently adapts to the aircraft environment to provide the best client performance by automatically adjusting power and channel as needed. Smart load balancing distributes clients evenly across the access points and bands on the aircraft which improve the overall network performance. Its Intelligent beamforming creates the most efficient path for data transmission between an access point and a client device creating an optimized communication path for stronger and faster data transmission. This improves throughput performance and results in battery power savings on the client device.

With more users, more devices, more things, more applications and more threats straining the aircraft infrastructure, the A200 was engineered to meet those ongoing challenges in the aircraft cabin. The A200 combines powerful 802.11ax Wi-Fi 6 technology, advanced security and ML/AI management capabilities together into an enterprise class solution that allows you to deploy high speed, highly secure Wi-Fi into the toughest aircraft environments.

## ▶ TECHNICAL INFORMATION

RADIO OPERATION	TRI-SOFTWARE-SELECTABLE-RADIOS (SSR): MODULATION RATES	<ul style="list-style-type: none"> <li>- 2.4GHz / 5GHz or Dual 5GHz Multi-User MIMO (MU-MIMO) with Dedicated 2.4GHz/5GHz Sensor Radio</li> <li>- 802.11ax: OFDMA (10 24-QAM)</li> <li>- 802.11ac: OFDM(BPSK, QPSK, 16-QAM, 64QAM, 256-QAM)</li> <li>- 802.11ac Packet Aggregation: A-MPDU, A-MSDU 80 2.11ac Very High- Throughput (VHT): VHT20/40/80</li> <li>- 802.11ac Advanced Features: LDPC, STBC, Maximum Likelihood (ML)</li> <li>- 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)</li> <li>- 802.11n High-throughput (HT) support: HT 20/40 802.11n</li> <li>- Packet aggregation: A-MPDU, A-MSDU 802.11</li> <li>- Advanced Features: LDPC, STBC and Tx BF</li> </ul>
	DATA RATES	<ul style="list-style-type: none"> <li>- 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>- 802.11n: (2.4 GHz): 6.5 to 300 Mbps (MCS0 to MCS15, HT20 to HT40)</li> <li>- 802.11n: (5 GHz): 6.5 to 300 Mbps (MCS0 to MCS15, HT20 to HT40)</li> <li>- 802.11ac: (5 GHz) 6.5 to 3467 Mbps (MCS0 to MCS9, NSS=1to 4, VHT20 to VHT160)</li> <li>- 802.11ax: (2.4 GHz): 3.6 to 574 Mbps (MCS0 to MSC11, NSS = 1to 2, HE20 to HE40)</li> <li>- 802.11ax: (5 GHz): 3.6 to 4800 Mbps (MCS0 to MSC11, NSS = 1to 4, HE20 to HE160)</li> </ul>
	CLIENTS PER RADIO	<ul style="list-style-type: none"> <li>- 256 clients per radio   512 clients total</li> <li>- BLE 5 Radio Bluetooth® Low Energy (BLE) and IEEE® 802.15.4 compliant</li> </ul>
RADIO APPROVALS		FCC CFR 47 Part 15, Class B, ICES-003 Class B, FCC Subpart C 15.247, FCC Subpart E 15.407, R55247, EN 301 893, EN 300 328, EN 301 489 1 & 17, EN 50385, EN 55032 (CISPR 32), EN 60601-1-2
ANTENNAS		- 7x integrated Omni-Directional Antennas
SOFTWARE		<p>WiNG 7 Enterprise Operating System provides a high-level of flexibility and scalability within a dense cabin aircraft environment offering extensive policy framework, analytics, intelligent automation, optimized streaming video, and seamless roaming within the network.</p> <ul style="list-style-type: none"> <li>- Supports touchless field loadable software/updates</li> <li>- Automatic Failure Recovery with dual image configuration</li> </ul> <p>Optional: Air Defense enhanced security software provides additional level of security features, analytics, etc.</p>
SECURITY		<p>Stateful L2-L7 DPI Firewall, IP filtering, NAT, 802.1x, 802.11i, WPA3, WPA2, WPA Triple Methodology</p> <p>Rogue Detection: 24x7 dual-band WIPS sensing, on-board IDS and secure guest access Hotspot 2.0 with captive portal, IPSec and RADIUS Server and VLANs</p>
RF MONITORING		Dedicated 3rd Sensor Radio that intelligently monitors and detects security issues while also intelligently (AI/ML) adjusting RF power and channels via WiNG ExtremeAI & SmartRF
WIFI ALLIANCE CERTIFICATIONS		WPA™ - Enterprise, Personal; WPA2™ - Enterprise, Personal; WMM® - Power Space

## ▶ TECHNICAL INFORMATION

I/O	J1 J2	<ul style="list-style-type: none"> <li>- Input Power, Discrete I/O: Radio Disable/Enable; PWR On/Off; Status, Console (RS-232), IP Strapping</li> <li>- 1x 10/100/1000 Mbps auto-negotiation Ethernet, 1x 100/1000/2500 Mbps auto-negotiation Ethernet</li> <li>- Supports Daisy-Chain and Fail-over feature for CWAP downstream fault recovery</li> </ul>
POWER		115VAC / 360-800Hz Aircraft Grade power with 200msec Hold-up; 25W Nominal
ENVIRONMENT & EMI		Qualified to DO-160G (see qualification test report)
SIZE / DIMENSIONS		2.82"H (74mm), x 10.0"W (254mm), x 8.0"D (203mm)
WEIGHT		7.4 lbs (3.4 kg)
OPERATING TEMPERATURE		-15°C to +70°C

## ▶ ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION
CWAP, A200, LAB	73001013-001	LRU, CWAP, A200, LAB
CABLE KIT, A200, LAB	73001013-500	Cable Kit, A200, Lab
CWAP, A200	73001013-100	LRU, CWAP, A200

## ▶ YOUR CONTACT

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