

AP-251 / AP-250

Secure Cabin and Flight Deck Router



Product Overview

The AP-251/250 Secure Cabin and Flight Deck Router is an integrated solution that offers a reliable means of establishing high-speed connectivity onboard a platform – independent from the service providers.

This appliance adds security to the network with end-to-end data encryption, network/local firewalls, encrypted data-at-rest, and Secure Boot. It also includes CCX Technologies' advanced platform Intrusion Detection System (IDS) – capable of monitoring databus, log, and IP network traffic for potential cyber vulnerabilities.

Supported by a 1TB solid-state drive, the AP-251/250 can be used to store large quantities of data, and features a container dedicated to hosting numerous third-party applications.

Features

- + Lightweight and compact
- + Configurable Policy-Based Routing (PBR) engine
- + Multi-WAN support (support multiple SATCOM systems)
- + Secure VoIP calling
- + Device management tools
- + Configurable Intrusion Detection System (IDS)
- + Zeek and SNORT network monitoring frameworks
- + End-to-end data encryption
- + Advanced local/network firewalls
- + Secure Boot / encrypted data-at-rest
- + Compatibility with many databus standards (including ARINC 429, MIL-STD-1553, and CANBUS)
- + Common data formatting / data fusion
- + 1 TB solid-state drive for data storage
- + Secure applications server
- + Platform configuration management

AP-251 / AP-250

Secure Cabin and Flight Deck Router

Technical Information

AP-250 Specifications

AP-251 Specifications

Dimensions	5.18"L x 4.64"W x 1.90"H	5.18"L x 4.64"W x 1.90"H
Weight	2.4lb	2.4lb
Typical Current Draw	400mA	400mA
Maximum Current Draw	700mA	700mA
Operating Voltage	+28VDC	+28VDC
Ethernet	4x 10/100/1000 BASE-T IEEE 802.3 Compliant Ethernet Ports with: ACS, Automatic MDI/MDIX crossover, Automatic polarity correction, and IEEE 802.3u compliant auto negotiation	6x 10/100/1000 BASE-T IEEE 802.3 Compliant Ethernet Ports with: ACS, Automatic MDI/MDIX crossover, Automatic polarity correction, and IEEE 802.3u compliant auto negotiation
Wi-Fi	2 x individually configurable IEEE802.11ac, 2.4 GHz/5GHz, 3x3 MIMO radios	2 x individually configurable IEEE802.11ax (WiFi 6), 2.4 GHz/5GHz, 3x3 MIMO radios
Mobile Broadband	4G LTE/5G CAT-12, 3G; DL/UL 600 Mbps/ 150 Mbps	5G
ARINC-429	N/A	2 x Rx ARINC-429 channels
Discrete GPIO	4 x GND/Open and High/Low Sensing Discrete Inputs/Outputs	4 x GND/Open and High/Low Sensing Discrete Inputs/Outputs
Wi-Fi Radio Discretes	2 x GND/Open Discrete directly controls Wi-Fi Radios	2 x GND/Open Discrete directly controls Wi-Fi Radios
LTE/5G Radio Discrete	1 x GND/Open Discrete directly controls LTE Radio	1 x GND/Open Discrete directly controls 5G Radio
Storage Volume	1TB of SATA III - NAND	1TB of SATA III - NAND
Telephony Support	Secure VoIP	Secure VoIP
SIM Card Module	Contains SIM card (3G/4G/LTE) with global telecom support.	Contains SIM card (3G/4G/LTE/5G) with global telecom support.
Mounting Information	4 mounting holes, use #8 bolts or screws; flange mount. Option to install in 2 or 4 MCU form factor	4 mounting holes, use #8 bolts or screws; flange mount. Option to install in 2 or 4 MCU form factor
Connectors	MIL-DTL-24308G 62-pin Male HD D-sub MIL-DTL-24308G 8W8 Coax Female D-sub	MIL-DTL-24308G 62-pin Male HD D-sub MIL-DTL-24308G 24W7 Coax Female D-sub
Environmental Qualifications	RTCA DO-160G	RTCA DO-160G

Powered by



Need more information?

Email us: info@ccxtechnologies.com

Visit us: ccxtechnologies.com