AWCS-1000

CONNECT, ENGAGE AND ENTERTAIN PASSENGERS

A state-of-the-art cabin IFEC distribution platform

As the backbone of the Collins Aerospace CabinConnect™ wireless in-flight entertainment and connectivity solution, our AWCS-1000 advanced wireless cabin system delivers a consistently high level of performance. It effectively connects the entire cabin and supports more than 300 simultaneous streams of video content. The system also supports secure SSIDs for cabin crew operations and applications.

AWCS-1000 elements include the system interface unit (SIU) and cabin wireless access points (CWAPs). It's designed to serve airlines of all sizes, meeting passenger engagement and operation needs such as broadband connectivity, wireless IFE, on demand content, moving maps and passenger services.

SYSTEM INTERFACE UNIT

The SIU is a powerful, on-board server featuring multi-core processors and an aircraft interface device with multiple direct-attached, low-latency, solid-state storage drives and high-speed memory. The SIU forms the basis of system scalability and feature upgrades. It's designed for high performance and maximum availability.

One of the most powerful systems available today, the SIU can be used in an all-in-one configuration to support cabin and connectivity applications simultaneously, including content storage for wireless in-flight entertainment.

In addition to aircraft interface functions, the SIU also provides a carrier-grade, gigabit Ethernet switch that offers multiple ports and dual redundancy. The switch functions as the core of our CabinConnect system network backbone. The SIU is packaged as an ARINC 600 4 MCU LRU.

KEY FEATURES AND BENEFITS

- Delivers maximum performance levels for a seamless, reliable service

- Flexible installation configurations to fit any aircraft layout

- Line-fit capability for a variety of airframes

- Intuitive user interface for maintaining on-board content

- Supports Wi-Fi® for ground data transfers

- Open architecture supports custom airline applications

- Fully integrated

- 24/7/365 global support network

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SIU TECHNICAL SPECIFICATIONS

Form factor	ARINC 600 4 MCU
Weight	6.0 kg (13.3 lbs)
Electrical power	120 VAC (variable frequency), 100 W
Environmental qualifications	DO 160G
Processor	Intel Core i7
RAM	16 GB dedicated DDR3 RAM
Storage	SSD (3 TB content, 64 GB software/data)
Ethernet controller	Gigabit Ethernet managed L3 switch with total of 16 x 1000BT and 5 x 100BT external ports
External interfaces	ARINC 429, discretes
Additional features	Hardware status monitoring and BITE, debug/management ports

CABIN WIRELESS ACCESS POINT

The latest generation of CWAPs is designed to provide predictable throughput, fairly distributed across all seats such that high-definition video is now possible over Wi-Fi for up to 300 passengers simultaneously.

The overhead distribution network is a best-in-class Wi-Fi architecture that incorporates the latest in high-density wireless technology while providing advanced features like automatic load balancing, "Wireless Spectrum Control" for over-the-air QoS and easy radio frequency management and control.

The CWAPs are multiple-input and multiple-output (MIMO)-capable to handle the crowded, multi-path environment in an aircraft. It is a dual-radio, dual band and three-stream 802.11ac wireless access point designed for data, voice and video applications in aircraft deployments.

Specifications subject to change without notice.

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