



## A state-of-the-art cabin IFEC distribution platform for engaging and entertaining passengers.

The backbone of Rockwell Collins CabinConnect™ wireless in-flight entertainment and connectivity solution, the AWCS-1000 delivers a consistent high level of performance, effectively connecting the entire cabin and supporting over 300 simultaneous streams of video content. The system also supports secure SSIDs for cabin crew operations and applications.

The system is comprised of several key components, including the system interface unit (SIU), the media load panel (MLP) and the cabin wireless access point (CWAP). Operating over the AWCS-1000 hardware platform, our CabinConnect system meets the passenger engagement and airline operation needs for any airline, including broadband connectivity, wireless IFE, on demand content, moving maps and passenger services – from a trusted provider.

### SYSTEM INTERFACE UNIT

The system interface unit (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 and is 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.

### KEY BENEFITS

- > A fully integrated system designed to achieve maximum performance levels and high availability
- > Flexible installation configurations to fit any aircraft layout
- > Linefit offerability for a variety of airframes
- > Intuitive user interface for maintaining onboard content
- > Supports 4G LTE and Wi-Fi for ground data transfers
- > Open architecture supports custom airline applications
- > 24/7/365 global support network



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

#### SIU TECHNICAL SPECIFICATIONS

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

#### MEDIA LOAD PANEL



The media load panel (MLP) accepts physical media (USB and SD Card) as well as off aircraft wireless (GSM/LTE and Wi-Fi) and provides control, system status, BITE and data upload/download capabilities from a convenient cabin location.

#### CABIN WIRELESS ACCESS POINT

The latest generation of CWAPs 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. Each CWAP supports 720p HD video resolution for up to 60 personal electronic devices.



#### Building trust every day.

Rockwell Collins delivers innovative aviation and high-integrity solutions that transform commercial and government customers' futures worldwide. Backed by a global network of service and support, we are deeply committed to putting our solutions to work for you, whenever and wherever you need us. In this way, working together, we build trust. Every day.

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