Sierra Portable IFE

Sierra Portable IFE is the third generation streaming portable Inflight Entertainment (IFE) system from Astronics Connectivity Systems & Certification (CSC). Sierra is designed to meet your requirements of short-term aircraft trials as well as your long-term IFE solution needs.

Sierra Portable IFE is Astronics CSC’s next generation streaming portable Inflight Entertainment (IFE) system designed to install in the overhead compartment of commercial aircraft. Sierra is a battery-operated alternative to a fixed IFE installation.

Sierra is capable of multi-user media streaming of audio, video-on-demand, digital magazine content, and much more. Sierra offers a suite of features that are unmatched in today’s portable IFE marketplace. In addition to its content streaming capabilities, the product also offers an onboard LTE cellular radio and a dedicated third Wi-Fi radio that enables networking of multiple units.

The unit’s compact size and light weight makes Sierra easily deployed in almost any cabin environment. With 12 hours of continuous battery operation, this solution is not only easy to operate, but is also easy to customize to meet your needs. Software APIs are available to quick-start your streaming and content management application. High capacity SSD storage ensures that you can provide ample content for streaming to passenger devices.

Product Features

- Low-power Intel® Atom™ x5-E3930 Processor
- Dual band (2.4GHz/5GHz) 802.11ac, Wave 2 Access Point
- Dedicated third 802.11ac/bgn radio (2.4 GHz /5 GHz) for wireless networking between multiple units
- Dual, hot-swappable batteries for over 12-hours of video streaming content
- Up to 2 TB of storage possible with removable or locked solid-state drive
- Optional aircraft power solution with appropriate STC
- Integrated TPM module for DRM needs
- Support for Docker Container applications
- ADS-B receiver to support moving map applications
- Optional PA pause installation kit can automatically pause Audio/Video stream during crew announcements with appropriate STC
- 4G/LTE cellular radio - automatically disables radio based on aircraft movement
- Disables IFE system automatically in the event of an emergency decompression event
- Demo software based on Ubuntu Server with proprietary drivers, daemons, REST API and other automated features
Astronics CSC reserves the right to make changes to the Specification and its products at any time without notice.

### COMPONENT

**CPU**
- Dual Core 1.3 GHz (1.8 GHz burst), Intel® Atom™ x5-E3930 | 2 MB L2 cache | 4 GB DDR4 – 2133MT/s | 16 GB eMMC onboard flash

**Wi-Fi**
- 2x 2.4 GHz/5 GHz, 802.11ac/abgn radios (Wave 2) – simultaneous operation | 1x dedicated 802.11ac/bgn (2.4 GHz/5 GHz) radio for networking multiple units together

**Cellular**
- 4G/LTE. Automatically enables and disables based upon aircraft movement | SIM card slot (front panel)

**ADS-B**
- ADS-B receiver

**Decompression**
- Cabin pressure monitoring sensor

**Security**
- Trusted Platform Module 2.0

**PA Mute**
- Automatically pauses streaming content in the event of a PA announcement

**Mass Storage**
- Front Removable SSD: Up to 2 TB | Internal: 16 GB eMMC flash memory on board

**Access Interfaces**
- USB 3.0 (Type A) | µHDMI | Serial console applications for both CPU and AP | Gigabit Ethernet (RJ45 – rear panel)

**Front Panel**
- Power Indicator ON | Power ON/OFF button | Cellular Enabled Button & Indicator (auto/manual) | Bat 1 / Bat 2 State-of-Charge Button & Indicator | External Power Source Indicator | Wi-Fi Indicator | PA Pause Indicator | Customizable Status Indicator

**Battery**
- 12-Hour endurance with 2x 14.4 V, 6900 mA-h (99.4 W-h) Li-ion batteries

**External Aircraft Power**
- Included: Lab power via DIN Connector and power supply
- Optional: blind mate connector & aircraft tray mount

**Operating System**
- Ubuntu Server | Supports Docker Container Applications

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### Outline Dimensions

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