ASTRONICS
CONNECTIVITY SYSTEMS & CERTIFICATION

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.

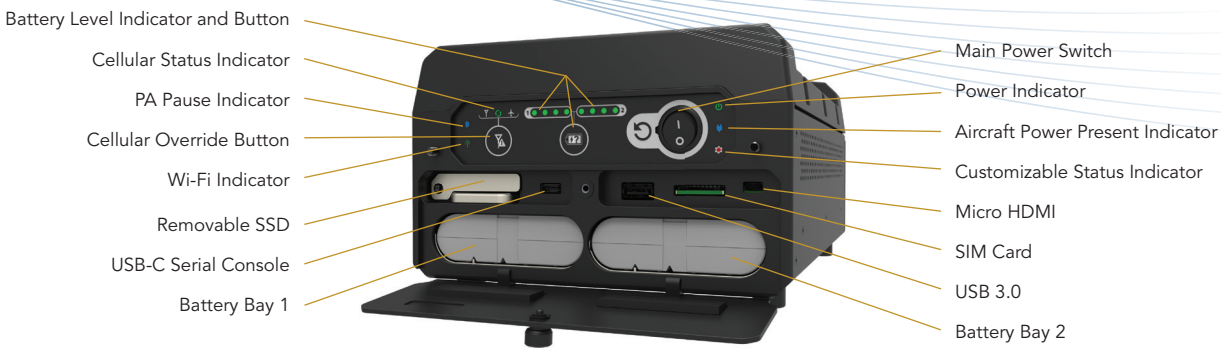
Sierra Portable IFE is Astronics CSC's next generation streaming portable Inflight Entertainment (IFE) system designed to install in the overhead compartment of commercial aircraft. Sierra is a battery-operated alternative to a fixed IFE installation.

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.

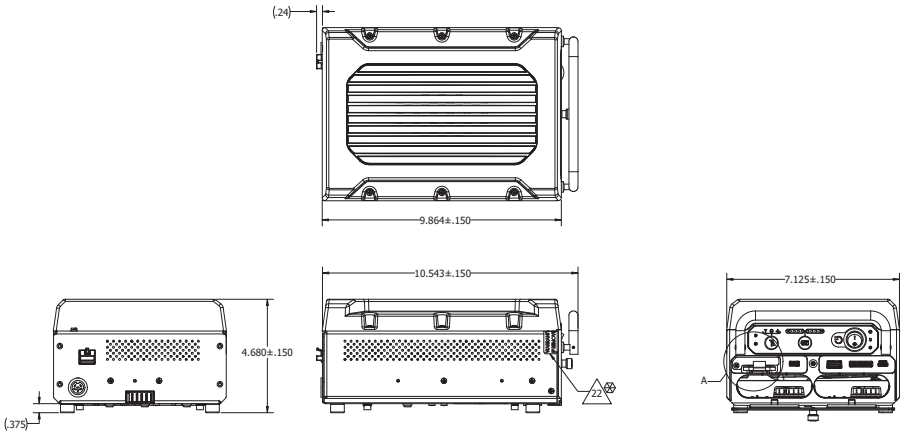
Product Features

- 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



Outline Dimensions

in inches



Specifications

COMPONENT	DESCRIPTION
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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Astronics CSC is committed to quality and is AS9100 and ISO 9001 registered.