ASTRONICS PGA

astronics.com

Cabin Servers

Inflight Entertainment Delivered Seamlessly Throughout Your VIP Aircraft

High Power Cores Serve Advanced Streaming Needs

The Astronics family of servers delivers the processing power you need on any executive, government and VVIP aircraft, ranging from helicopters to business jets to wide-body aircraft.

Available from shoe-box to 2 & 4MCU formats, these servers feature high-speed Ethernet connectivity for a full IP architecture. Astronics PGA servers incorporate the latest generations of processors to deliver the power you need to bring seamless 4K video streaming to portable electronic devices (PEDs), keep on eye on the moving map, connect with friends, play games, and much more. All applications are housed on a solid-state drive (SSD) inside a single server.

Applications

- Connect to high speed internet, worldwide telephony, IPTV, and more
- Store DRM or personal media (up to 6 TB)
- Stream content on iPads and cabin screens
- Broadcast HD 3D moving maps into the cabin
- Automatically set up and configure devices with Carat Supervisor software.
- Control the cabin management system (CMS)

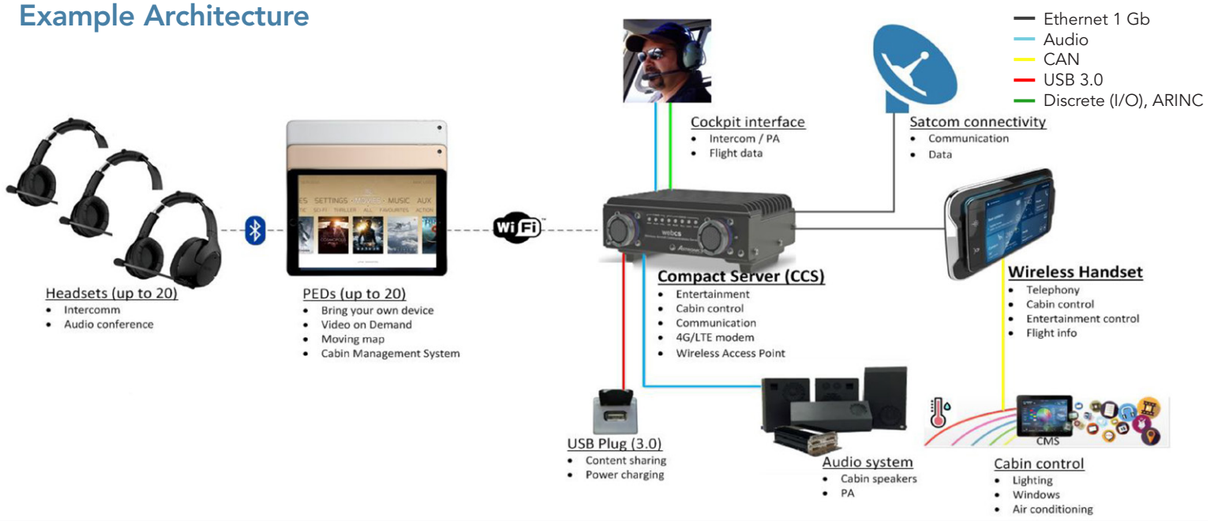
KEY BENEFITS

- Scalable system architecture
- Multiple qualified servers of various size and capacity to fit any type of aircraft
- Media serving
- DRM capability
- Ethernet ports (Internal switch)
- Arinc 429 ports
- Serial ports, and more

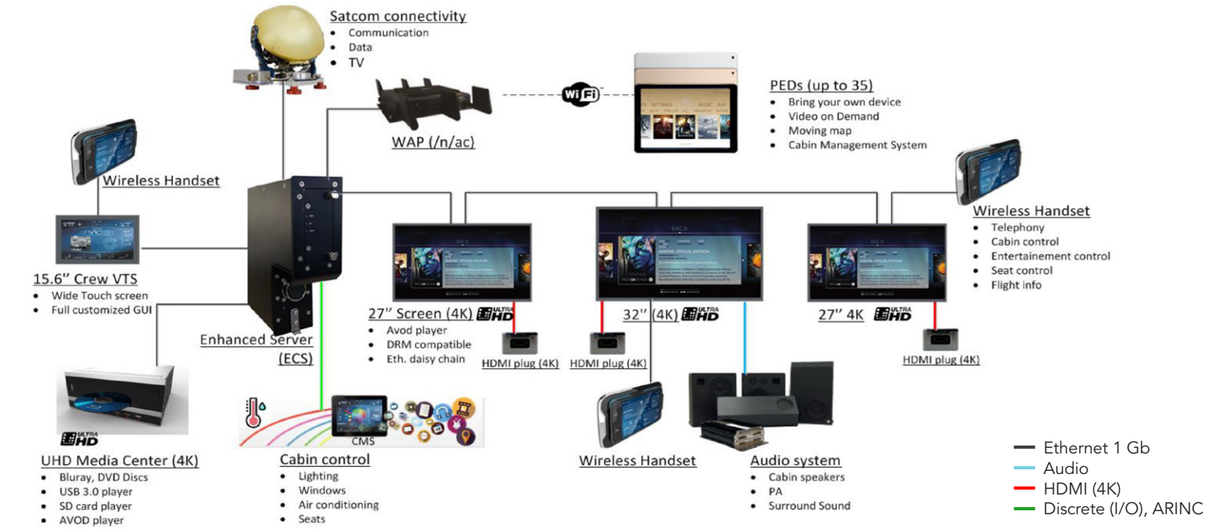
Aircraft

Rotorcraft: The essential from 3 lbs

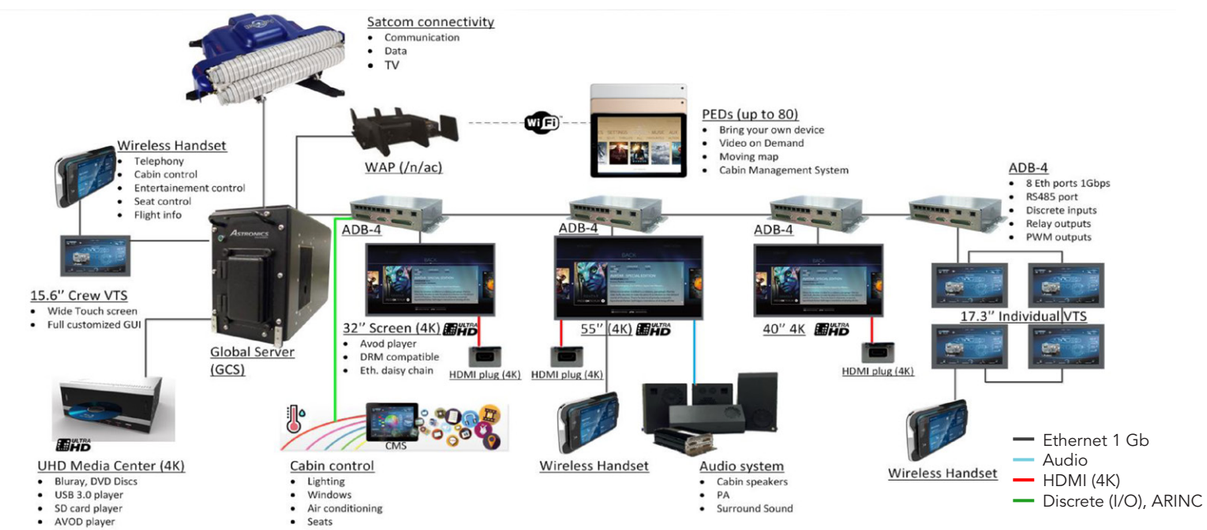
Example Architecture



Business Jet: Daisy-chain architecture to optimize integration



VVIP aircraft: Full IP-based scalable solution



PRODUCT SPECIFICATIONS

COMPACT CABIN SERVER

Dimensions: 1.77"H x 4.72"D x 5.91"W

Weight: 3 lbs (1.4 kg)

Processor: Intel® Atom™ E3845 Quad Core, 1.91GHz, 4GB of DDR3

Data Mass Memory: 1x 256 GB SSD

Serial Data Links: 1xRS-232 console, 1x RS-232/422, 2x RS-422/485

Ethernet Ports: 4x 100 Mbps

ARINC 429/ 717: 12 Rx/ 8 Tx ARINC 429, 2 Rx ARINC 717, 1 Rx/ 1Tx ARINC 708

USB: 1x USB 3.0

Embedded Wi-Fi™ antenna: 802.11 a/b/g/n 2.4/5 GHz, 256-bit WPA2

4G/ LTE Connectivity: 2x field-extractable 3G/4G LTE SIM cards
Internal or external antenna

Qualified to RTCA DO-160G

Power Supply: 28 VDC (18V - 32.2V), 100 W max, 250 ms hold-up

ENHANCED CABIN SERVER

Dimensions: 7.64"H x 15.13"D x 2.38"W

Weight: 7.5 lbs (3.4 kg)

Processor: Intel® Core™ i7-4700 EQ Quad core, 2.5 GHz, 16 GB of DDR3

Data Mass Memory: 2x 2.5" field-extractable 512 GB SSD

Serial Data Links: 3xRS-232, 1x RS-422, 1x RS-485

Ethernet Ports: 12x 100 Mbps or 8x 100 Mbps & 2x Gbps

ARINC 429/ 717: 8 Rx/ 4 Tx ARINC 429, 1 Rx/ 1Tx ARINC 717

USB: 5x USB 2.0

4G/ LTE Connectivity: 3x field-extractable 3G/4G LTE SIM cards
External antenna
2x ISDN BRI interfaces

Qualified to RTCA DO-160G

Power Supply: 28 VDC (16V - 33V), 60 W max, 250 ms hold-up

GLOBAL CABIN SERVER

Dimensions: 7.62"H x 12.675"D x 4.88"W

Weight: 12 lbs (5.4 kg)

Processor: Intel® Core™ i7-2610UE Dual core, 2.4 GHz, 16 GB of DDR3

Data Mass Memory: 2x field-extractable SSDs - up to 1.6 TB

Serial Data Links: 1xRS-232 console

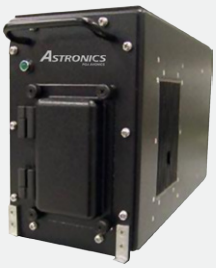
Ethernet Ports: 10x Gbps

ARINC 429/ 717: 6 Rx/ 3 Tx ARINC 429

4G/ LTE Connectivity: 1x field-extractable 3G/4G LTE SIM card
External antenna

Qualified to RTCA DO-160G

Power Supply: 115 VAC, 360/800 Hz, 65 W max, 200 ms hold-up



Get Started Today

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RELATED PRODUCTS

Full HD and Ultra HD Smart Screens

Handset

UHD Media Center

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