

CabinPinnacle-2™

Next Generation Server from Astronics Summit™ Line of IFEC Hardware

The CabinPinnacle-2 is a high-performance 4 MCU server/router offering a highly integrated and application-ready platform ideally suited for high-bandwidth network installations.



CabinPinnacle-2 is the latest airborne server from Astronics. CabinPinnacle-2 features include advanced processing and networking along with aircraft interfacing capability. This architecture-ready solution offers an array of updated features including general purpose and GPU processing, and networking capability.

Qualified to DO-160G and OEM linefit installations, CabinPinnacle-2 is an ideal platform to build applications that include crew and passenger web services, predictive maintenance or manifest applications, connectivity, and In-Flight Entertainment (IFE) media services. CabinPinnacle-2 supports both Linux and Windows operating systems and is available with an array of integrated software APIs for maximum flexibility.

The CabinPinnacle-2 server platform has the flexibility and advanced technology needed to function as the backbone for your Inflight networking and file server system.

With the growing demand for passenger entertainment, airline operational analytics and predictive maintenance solutions, you can be sure that CabinPinnacle-2 enables a future-proofed platform that will continue to exceed expectations.

Product Features

Processor	Intel® Xeon® W-11555MRE, 8-Core Processor with up to 128GB DDR4 ECC RAM
Network	12x GbE (on ARINC 600 connector), 1x 2.5GbE Available on Front Panel
Discrete I/O	8x Output / 9x Input (includes System Enable) (ESD/ Opto-isolation)
Audio	3x balanced outputs, 1x balanced input
Maintenance	Comprehensive front panel connectors
Cellular Modem	Internal 5G/LTE Modem with Front accessible dual USIM (Software Selectable)
Security	TPM per TPM 2.0 specifications
Status LEDs	Power on status · System operation status · Terrestrial modem link status · 4MCU per ARINC 600
Power Supply	Airborne power supply meets Boeing and Airbus specifications for hold-up and harmonic distortion
Form Factor	4MCU per ARINC 600
Additional Features	3x Analog Audio Outputs · 1x Analog Audio Input

Server Unit Feature Suite

COMPONENT	DESCRIPTION
Processor	Based on 11th generation Intel® Xeon® (Tiger Lake); includes: 6x Cores, 12x Threads, 2.6GHz (W-11555MRE), 12MB Cache, Intel UHD Graphics and up to 128GB of DDR4 ECC
Maintenance & Config: USB 3.0/2.0, Type A Mini-DisplayPort RJ45 Micro-USB USIM	USB 3.0/2.0 Video 2.5GbE Serial Console Port (CPU) Dual USIM push/pull connector
External Ethernet Ports	12x GbE (on ARINC 600 connector)
Mass Storage	1x M.2 (SATA III), 3x 2.5" SSD (SATA III)
Cellular	Internal 5G Cell Modem w/4x4 MIMO support
Aircraft Discretes	8x Output / 9x Input (includes System Enable)
ARINC 429/717	6x RX ARINC 429, 1x ARINC 429 TX 2x RX ARINC 717 (each channel configurable as bipolar or bi-phase or as an ARINC 429 RX)
RS-232/422	1x each available on ARINC 600 connector (used for development purposes)
Analog Audio	3x balanced outputs, 1x balanced input
Form Factor	4MCU per ARINC 600
Power Supply Unit	115VAC, 360Hz-800Hz, Single-phase, 250msec Hold-up (100W max)



804 S. Northpoint Blvd. | Waukegan, IL 60085 | USA +1.847.244.4500 CSCsales@astronics.com
astronics.com/CSC

Astronics CSC is committed to quality and is AS9100 and ISO 9001 registered. Astronics CSC is a registered trademark of Astronics Corporation. CabinPinnacle-2 and the Summit logo are trademarks of Astronics Corporation. All other trademarks are the property of their respective owners.

© Astronics Connectivity Systems & Certification | All Rights Reserved
Astronics CSC reserves the right to make changes to the Specification and its products at any time without notice

