

CabinPinnacle[™] A server from the Summit line

The CabinPinnacle general purpose airborne server/router is a complete, highly integrated, application-ready platform for Ethernet-based network installations.



Behind every great passenger entertainment and connectivity solution is a great server. The growing demand for technology driven customer experiences has created a paradigm shift for airlines. How to implement or evolve streaming multi-media applications and wireless internet services for passengers' personal electronic devices is now a consideration for every airline operator. Meeting this need is at the heart of the CabinPinnacle server.

The CabinPinnacle server was designed specifically for aircraft environments, supporting the connectivity and bandwidth demands of passengers. It also supports both Linux and Windows operating systems; integrated software APIs for maximum flexibility are also available.

Qualified to DO-160G and optimized for a full range of flight information systems, the CabinPinnacle server is an ideal platform to build applications that include crew and passenger web services, flight maintenance or manifest applications, connectivity, and In-Flight Entertainment (IFE) media services. The CabinPinnacle server platform has the flexibility and advanced technology needed to function as the backbone for your system.

Product Features

5th Generation Intel® Core $^{\text{TM}}$ i7 Platform (Broadwell) Quad Core 2.70GHz Processor

GbE Ports 11x Available on ARINC 600 Connector

1x Available on Front Panel

Discrete I/O 10x Input / 10x Output (ESD/Opto-isolation)

Maintenance **Extensive Front Panel Connectors**

Cellular Modem Internal 4G/LTE/HSPA+ Modem with Front Accessible Dual USIM (Software Selectable)

> Security TPM per TPM 1.2 Specifications

Status LEDs Front Panel Status LEDs to Indicate Power

On, System Operation, and Terrestrial Modem Link Status

Airborne Power Supply Meets Boeing and Airbus Specifications for Hold-Up and Power Supply

Harmonic Distortion

Form Factor 4MCU per ARINC 600

Additional Features Power Over Ethernet

Zx Analog Audio Outputs
Internal 3x Solid State Drive (SSD)
Front Panel Accessible CFast Slot for Boot Media
Support for Airplane Personality Module (APM)



Server Unit Feature Suite

COMPONENT	DESCRIPTION		
Processor	5th Generation Intel® Core™ i7 Processor Platform (Broadwell), Quad Core, 2.7 GHz		
Memory	16 GB DDR3, 1600MHz		
Maintenance Ports: USB 3.0, Type A DB15HD RJ45 SIM Connector DB9M	USB 3.0 VGA Gigabit Ethernet 2x Push/Pull Slot for USIM Cards Serial (RS232)		
Mass Storage	Internal: Up to 3x 1.6 TB SATA Front Accessible CFast Slot for Boot Media		
Aircraft Personality Module (APM)	Support for Tray Mounted 1-Wire EEPROM and USB 2.0 Memory Devices		
Cell Modem	GSM (4G, LTE) w/USIM Based on Sierra Wireless EM7455/EM7430		
AC Discretes	10x Input / 10x Output (ESD/Opto-isolation)		
ARINC 429	4x RX / 2x TX		
ARINC 485	1x Half-Duplex Port		
Audio	2x Balanced Analog		
Power Over Ethernet	1x Port IEEE 802.3af Compliant		
Security	TPM On-Board per TPM 1.2 Specifications		
External Ethernet Ports	11x Gigabit Ethernet Available on ARINC 600 Connector		
Front Panel Indicators	3x LEDs to Indicate Power On, System Operation, and Terrestrial Modem Link Status		
Power Supply Unit	115VAC, 360Hz-800Hz, Single-phase, 200msec Hold-up (min)		
Weight	12 lbs.		
Mechanical Form Factor	4MCU per ARINC 600		
Thermal	Active Cooling via Cooling Tray or Standard ARINC 600 Racking System		

Environmental/EMI Test Requirements

DESCRIPTION	SECTION	RTCA/DO-160G CATEGORY
 Temperature	Section 4	Category A1
Altitude	Section 4	Category A1
Temperature Variation	Section 5	Category C
Humidity	Section 6	Category A
Operational Shock/Crash Safety	Section 7	Category B
Vibration	Section 8	Category S, Curve B
Magnetic Effect	Section 15	Category A
Power Input	Section 16	Category A(WF)H
Voltage Spikes	Section 17	Category A
AF Conducted Susceptibility - Power Inputs	Section 18	Category R(WF)
Induced Signal Susceptibility	Section 19	Category AW
Radio Frequency Susceptibility (Condusted and Radiated)	Section 20	Category T
Emissions of Radio Frequency Energy	Section 21	Category M
Lightening-Induced Transient	Section 22	Category B2xxxx - Power Supply Pins Category xxC1xx - Unshielded Cables Category xxE1xx - Shielded Cables
Electrostatic Discharge	Section 25	Category A
Fire/Flammability	Section 26	14 CFR Section 25.853(A) and 14 CFR Section 25.869(A)(4)

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