

CABINPINNACLE™

A SERVER FROM THE SUMMIT™ LINE

The Telefonix PDT™ 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 integrates a quad core 2.7 GHz Intel® Core™ i7 processor with 16GB of DDR3 memory and supports connectivity and bandwidth demands utilizing features such as an L2/L3 managed Gigabit Ethernet Switch with eleven externally available Gigabit Ethernet ports. Designed specifically for aircraft environments, this ARINC 600 4MCU form factor includes six ARINC 429 channels, 20 aircraft discrete I/Os, and integrated self-healing health monitoring. The server also supports both Linux and Windows operating systems as well as the availability of integrated software APIs for maximum flexibility.

Qualified to DO-160G and optimized for a full range of flight information systems, the Telefonix PDT 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. With Ultra-fast SATA III solid state drives offering 4.8 TB of total storage, and Worldwide 4G/LTE/HSPA+ connection capability, this server platform has the flexibility and advanced technology needed to function as the backbone for your system.

THE SUMMIT LINE

The Telefonix PDT Summit line of aircraft Inflight Entertainment and Connectivity (IFEC) equipment is comprised of state-of-the-art system components that offer you the premier solution set available on the market today. Summit hardware elements can easily be added to enhance your current system or can be combined to create a unique solution to meet your IFEC needs.



PRODUCT FEATURES

Processor	5th Generation Intel® Core™ i7 Platform (Broadwell) Quad Core 2.70GHz
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
Power Supply	Airborne Power Supply Meets Boeing and Airbus Specifications for Hold-Up and Harmonic Distortion
Form Factor	4MCU per ARINC 600
Additional Features	Power Over Ethernet 2x Analog Audio Outputs Internal 3x Solid State Drive (SSD) Front Panel Accessible CFast Slot for Boot Media Support for Airplane Personality Module (APM)

Weight: 12 lbs (5.44 Kg)



HQ: 2340 Ernie Krueger Circle Waukegan, IL 60087 USA
P 1.847.244.4500 F 1.847.244.4525 info@telefonixinc.com

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TELEFONIX PDT™
telefonixpdt.com



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 Spike	Section 17	Category A
Audio Frequency Conducted Susceptibility - Power Inputs	Section 18	Category R(WF)
Induced Signal Susceptibility	Section 19	Category AW
Radio Frequency Susceptibility (Radiated & Conducted)	Section 20	Category T
Emissions of Radio Frequency Energy	Section 21	Category M
Lightning-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)

Equipment specifications are updated from time to time to ensure that Telefonix PDT product designs are in line with ongoing market and technology advancements. Please contact us for the most up to date product details.



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