ACE Flight™ 904

ACE Flight™ 904 Server

❯ Cabin Server System with fixed and removable storage devices

❯ Intel® 6-Core E-2276ML and Integrated UHD Graphics, 32 GByte ECC RAM

❯ L2 Managed Ethernet Switch

❯ HDMI 2.0 (4K), USB 3.0/2.0, Audio, Serial Interfaces, ARINC 429

❯ Qualified to DO-160G

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ACE Flight™ 904 Server

Kontron's ACE Flight 904 Cabin Server has been designed and rigorously qualified to DO-160G environmental conditions for airborne applications used in space constrained installations within the aircraft cabin. The highly reliable server provides the aircraft cabin enhanced performance with the 9th Generation Intel® 6-core processor and integrated graphics and can securely communicate with other elements of the aircraft data distribution systems over its L2 Managed Ethernet links, ARINC 429 interfaces,

and USB 3.0/2.0 ports. The Open Platform Server is application ready and can be used as a head end component of an In-flight Entertainment System, data distribution system or other in-flight communication server application. The integrated graphics supports HDMI 2.0a 4K resolution video display output along with separate audio input/output channels and is the ideal cabin server for server regional, business jet and VIP aircraft.

Technical Information

FORM FACTOR	Small form factor, flange mount, conduction cooled Dimensions: 8.5" (216mm) W x 5.6" (142mm) D x 3.9" (99mm) H
PROCESSOR	Intel® 6-Core™ E-2276ML (2.0 GHz), 12 MByte Cache, Graphics: Intel® UHD Graphics P630
MEMORY	32 GByte DDR4, ECC
SOFTWARE / OS	Linux Ubuntu 20.04 LTS; Support for Windows 10 Open Platform (application ready) with integrated driver support and APIs Power Built-In Test (PBIT)
SECURITY	TPM 2.0, Intel®-AES, Secure & Trusted Boot Options
STORAGE	128 GByte fixed storage (OS & application) Optional Storage: Removable 2x SSDs (separate ordering options)
ETHERNET PORTS	2x 10/100/1000BT Direct Ethernet Ports 4x 10/100/10000BT Switched Ethernet Ports
ETHERNET SWITCH	L2 Managed Ethernet Switch
ARINC 429	Four (4) Rx Channels (fixed), Two (2) Tx/Rx (configurable) Channels
SERIAL, DISCRETES	8x GPI (In), 4x GPO (Out) and 12x GPIO, (SE) LVTTL 4x Serial Ports configurable for RS422 and/or RS485 (user configurable) 1x RS-232
AUDIO	2x Differential Out; 1x Single End (SE) Out 4x Single End (SE) In
VIDEO	HDMI 2.0a (4K) or DVI (external cable termination dependent)
USB	3x USB 2.0, 1x USB 3.0
POWER	+28VDC with 250msec Hold-up 50 W nominal
ENVIRONMENT	Qualified to DO-160G
WEIGHT	7.4 lbs (3.4 kg)
TEMPERATURE	-40 °C to +70 °C

Ordering Information

ARTICLE	PART NO.	DESCRIPTION
AF904 SERVER, LAB	78510905-001	LRU, SERVER, ACE FLIGHT 904, LAB
CABLE KIT, LAB	78510905-500	BREAKOUT I/O CABLE KIT
AF904 SERVER	78510904-402	LRU, SERVER, ACE FLIGHT 904
RSSD	5160580-3 5160580-4 5160580-5	RSSD, 256 GByte RSSD, 512 GByte RSSD, 1 TByte

About Kontron

Kontron is a global leader in IoT/Embedded Computing Technology (ECT) and offers individual solutions in the areas of Internet of Things (IoT) and Industry 4.0 through a combined portfolio of hardware, software and services. With its standard and customized products based on highly reliable state-of-the-art technologies, Kontron-provides secure and innovative applications for a wide variety of industries. As a result, customers benefit from aceerated time-to-market, lower total cost of ownership, extended product lifecycles and the best fully integrated applications.

For more information, please visit: **www.kontron.com**

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