

ACE Flight™ 1600



ACE Flight™ 1600 Avionics Gateway Router

- Small form factor avionics gateway router
- Intel® E3845 Quad Core™ Processor with 4 GByte DDR4 RAM (ECC)
- Integrated ethernet switch with five GbE switched ports and one GbE direct ports
- Wireless connectivity – 4G LTE (global), optional WiFi
- Qualified to DO-160G Qualified and PMA Approval

ACE Flight™ 1600

The ACE Flight 1600 Gateway accelerates time-to-market by providing integration-ready gateway functionality in a small platform to the connected aircraft. With it, airlines and service providers can solve a broad range of secure connectivity network-

ing issues on the aircraft within a single platform. The system securely consolidates wireless connectivity (cellular and WiFi), switching and routing to other systems in the aircraft based on an open platform architecture.

Technical Information

FORM FACTOR	Small Form Factor: 1.75"H x 7.8"W x 5.5"D; conduction cooled
PROCESSOR	Intel® E3845, 4-Core Processor, 1.5 GHz
DRAM	4 GByte ECC RAM
OPERATING SYSTEM	Linux Debian
SECURITY	TPM 1.2 On board
WEIGHT	3.4 lbs (1.5 kg) with cellular modem 3.9 lbs (1.7 kg) with cellular and WiFi modem
STORAGE	64 GByte eMMC fixed storage (OS & application), Optional 1 TByte fixed Storage
ETHERNET PORTS	5x 10/1000/1000BT Ethernet Ports (Switched) via J2, J3 & J4 rear connectors 1x 10/1000/1000BT Ethernet Port (Direct) via J2 rear connector 1x 10/1000/1000BT Ethernet Port RJ45 front access panel
ETHERNET SWITCH	L2 Managed Ethernet Switch
ARINC 429	Two (2) Rx Channels (fixed), One (1) Tx Channel (fixed)
AIRCRAFT DISCRETES	3x in, 2x out (ESD/opto-isolated); Dedicated Inputs: System Enable, WiFi Enable, Cell Modem Enable
CELLULAR MODEM	4G/LTE Advanced+ modem for global coverage Dual Mini SIM access via front access panel 2x RF QMA connections via front panel (Diversity)
WIFI (OPTIONAL)	802.11 ac/abgn WiFi radio with 3x external RF QMA connections via front panel
USB	1x USB 2.0 via J1 connector 1x USB 2.0 via front access panel
VIDEO	1x mini Display Port via front access panel
SERIAL	1x RS232 (mini USB Type B) via front access panel
POWER	28 VDC with 200 msec Hold-up, 20 W (nominal)

Ordering Information

ARTICLE	PART NO.	DESCRIPTION
AF1600, LAB	73004001-001	LRU, AF1600 Gateway, LAB
EXTERNAL CABLE KIT, LAB	73004001-500	KIT, External Interface Cables
AF1600 CELLULAR	73004001-102	LRU, AF1600 Gateway, Cellular
AF1600 CELLULAR & WIFI	73004001-103	LRU, AF1600 Gateway, Cellular and WiFi
AF1600 CELLULAR, WIFI, & 1 TB	73004001-107	LRU, AF1600 Gateway, Cellular, WiFi & 1 TByte storage



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 accelerated 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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