

# 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 (pending)

## ▶ 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 Ubuntu 16.04 LTS
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)
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	4x Inputs/ 2x Outputs (ESD/opto-isolated) via J1 rear connector
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)
ENVIRONMENT	Qualified to DO-160G (pending)
ISDN (OPTIONAL)	1x ISDN Channel 2B+D (Optional Configuration)

## ▶ ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION
AF1600, LAB	73004001-001	LRU, AF1600 Gateway, no PMA
EXTERNAL CABLE KIT, LAB	73004001-500	KIT, External Interface Cables
AF1600 CELLULAR, PMA	73004001-102	LRU, AF1600 GATEWAY, CELLULAR, PMA
AF1600 CELLULAR & WIFI, PMA	73004001-103	LRU, AF1600 Gateway, Cellular and WiFi, PMA

## ▶ CORPORATE OFFICES

### EUROPE, MIDDLE EAST & AFRICA

Lise-Meitner-Str. 3-5  
86156 Augsburg  
Germany  
Tel.: + 49 821 4086 0  
Fax: + 49 821 4086 111  
info@kontron.com

### NORTH AMERICA

9477 Waples Street  
San Diego, CA 92121  
USA  
Tel.: + 1 888 294 4558  
Fax: + 1 858 677 0898  
info@us.kontron.com

### ASIA PACIFIC

1-2F, 10 Building, No. 8 Liangshuihe 2nd Street,  
Economical & Technological Development Zone,  
Beijing, 100176, P.R.China  
Tel.: +86 10 63751188  
Fax: +86 10 83682438  
info@kontron.cn