

# ACE Flight™ 4783



## ACE Flight™ 4783 Dual MODMAN

- Integrated dual Satellite Modem Cards with RF switch
- High performance Intel® Xeon® 6-Core processor, 64 GByte DRAM
- L2 Managed Ethernet Switch
- Compliant to ARINC 791/792
- Qualified to DO-160G, Line-fit Ready

## ACE Flight™ 4783 MODMAN

Kontron's AF4783 MDOMAN has been designed in accordance with ARINC 791/792 and has the unique ability to support two different SATCOM modems without any compromise or feature limitations. The MODMAN also includes an Intel® Xeon® 6-Core processor, L2+ Managed Ethernet Switch, cellular modem, ARINC 429 and fixed/removable storage options. The dual integrated satellite modem approach eliminates the need for a second MODMAN to be installed onto the aircraft thus removing weight,

cost and complexity while still allowing the aircraft the ability to utilize different satellite operators by selecting the appropriate modem during flight. Kontron has designed its ACE Flight™ 4783 MODMAN product family to support the different modem configurations (ordering options). This product line has been rigorously tested and qualified to DO-160G environmental conditions for airborne applications.

## Technical Information

<b>FORM FACTOR</b>	4MCU per ARINC 600, air flow-through Dimensions: 7.77" (197 mm) H x 4.88" (124 mm) W x 15.10" (384 mm) D
<b>SATCOM MODEM</b>	Configuration dependent -101: iDirect iQ800 and Hughes Jupiter *Other modems planned, contact factory for latest updates
<b>PROCESSOR / MEMORY</b>	Intel® Xeon® E-2276ML (6x 2.0 GHz), CM246 PCH, GT2 64 GByte DDR4, ECC, RAM TPM 2.0
<b>ETHERNET SWITCH</b>	L2+ Managed Ethernet Switch
<b>STORAGE</b>	1x 512 GByte mSATA (OS/Application) 1x 1 TByte NVMe 1x Removable SSD (Ordering Option)
<b>RF CONNECTIONS</b>	SATCOM: (1) Tx, (2) Rx RF connections Cellular: (1) Rx/Tx RF (Main)
<b>CELLULAR MODEM</b>	4G/LTE modem with dual SIM slots
<b>ETHERNET PORTS</b>	12x Ethernet Ports (6x GbE, 6x 100BT)
<b>ARINC 249</b>	6x ARINC 429 Rx (fixed), 1x ARINC 429 (Tx/Rx) configurable
<b>OTHER</b>	15x DI, 6x DO, 3x Config, APM, 2x Audio, 1x USB 2.0
<b>FRONT I/O</b>	LEDs: Power, Status, Receive, Transmit Ethernet (RJ45), USB 3.0/2.0, HDMI, 2x SIM (cellular), RTC Battery Serial Interface via USB Type B
<b>SOFTWARE</b>	Ubuntu 20.4 LTS, 64-bit Contact Factory for Optional Software and other OS support
<b>POWER</b>	115 VAC (360 – 800 Hz) Aircraft Power with 200msec Hold-up 100 W nominal
<b>ENVIRONMENT</b>	Qualified to DO-160G, Line-Fit Ready
<b>WEIGHT</b>	15.8 lbs (7.17 kg)
<b>OPERATING TEMPERATURE</b>	-15 °C to +70 °C

## Ordering Information

ARTICLE	PART NO.	DESCRIPTION
AF4783 LRU	73005010-101	LRU, AF4783 MODMAN DUAL MODEM
AF4783 LRU, LAB	73005010-001	LRU, AF4783 MODMAN DUAL MODEM, LAB UNIT
AF4783 TRAY, LAB	73005010-500	TRAY & BREAKOUT I/O CABLES, LAB



## 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](http://www.kontron.com)

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