

Ace Flight™ 4783

iQ800 & JUPITER 2 – iQ800 Only – JUPITER 2 Only



Ace Flight™ 4783 Dual MODMAN

- Integrated single or 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 MODMAN 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 re-

moving 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 (iQ800 & Jupiter 2, iQ800 only or Jupiter 2 only). This product line has been rigorously tested and qualified to DO-160G environmental conditions for airborne applications.

Technical Information

FORM FACTOR	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
SATCOM MODEM	Configuration dependent: -106: iDirect iQ800 and Hughes Jupiter 2 -111: iDirect iQ800 only -121: Hughes Jupiter 2 only
PROCESSOR / MEMORY	Intel® Xeon® E-2276ML (6x 2.0 GHz), CM246 PCH, GT2 64 GByte DDR4, ECC, RAM TPM 2.0
ETHERNET SWITCH	L2+ Managed Ethernet Switch
STORAGE	4TB of fixed storage (NVMe) 1x Removable Solid State Drive (RSSD), capacity up to 8TB (Ordering Option)
RF CONNECTIONS	SATCOM: (1) Tx, (2) Rx RF connections Cellular: (1) Rx/Tx RF (Main)
CELLULAR MODEM	4G/LTE modem with dual SIM slots
ETHERNET PORTS	10 x Ethernet Ports (8 x GbE, 2 x 100BT)
ARINC 249	6x ARINC 429 Rx (fixed), 1x ARINC 429 (Tx/Rx) configurable
OTHER	15x DI, 6x DO, 3x Config, APM, 2x Audio, 1x USB 2.0
FRONT I/O	LEDs: Power, Status, Receive, Transmit Ethernet (RJ45), USB 3.0/2.0, Mini-Display Port, 2x SIM (cellular), RTC Battery Serial Interface via USB Type B
SOFTWARE	Ubuntu 20.4 LTS, 64-bit
POWER	115 VAC (360 – 800 Hz) Aircraft Power with 200msec Hold-up 100 W nominal
ENVIRONMENT	Qualified to DO-160G, Line-Fit Ready
WEIGHT	15.8 lbs (7.17 kg)
OPERATING TEMPERATURE	-15 °C to +70 °C

Ordering Information

ARTICLE	PART NO.	DESCRIPTION
AF4783 LRU	73005010-106	LRU, AF4783 MODMAN DUAL MODEM iQ800 & JUPITER 2
AF4783 LRU	73005010-111	LRU, AF4783 MODMAN SINGLE MODEM iQ800
AF4783 LRU	73005010-121	LRU, AF4783 MODMAN SINGLE MODEM JUPITER 2
AF4783 TRAY, LAB	73005010-501	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

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