

Ace Flight™ 4783

TAURUS HB



Ace Flight™ 4783 Dual MODMAN

- Integrated single Taurus-HB 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

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. 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: -131: Gilat Taurus HB 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)
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, LAB	73005010-031	LRU, AF4783 MODMAN SINGLE MODEM TAURUS HB, LAB
AF4783 LRU	73005010-131	LRU, AF4783 MODMAN SINGLE MODEM TAURUS HB
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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