

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

POSSIBILITIES START HERE



kontron
S&T Group

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

FORM FACTOR	4MCU per ARINC 600, air flow-through Dimensions: 7.77" (197mm) H x 2.25" (57mm) W x 14.3" (372mm) D
SATCOM MODEM	Configuration dependent -101: iDirect IQ800 and Hughes Jupiter *Other modems planned, contact factory for latest updates
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	1x 512 GByte mSATA (OS/Application) 1x 1 TByte NVMe 1x Removable SSD (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	12x Ethernet Ports (6x GbE, 6x 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, HDMI, 2x SIM (cellular), RTC Battery Serial Interface via USB Type B
SOFTWARE	Ubuntu 20.4 LTS, 64-bit Contact Factory for Optional Software and other OS support
POWER	115 VAC (360 – 800 Hz) Aircraft Power with 200msec Hold-up 100 W nominal
ENVIRONMENT	Qualified to DO-160G, Line-Fit Ready
WEIGHT	18.25 lbs (3.97 kg)
OPERATING TEMPERATURE	-15 °C to +70 °C

