

ACE Flight™ 4780



ACE Flight™ 4780 MODMAN

- ARINC 791 Modem Manager (MODMAN)
- Integrated Satellite Modem Card
- High performance Intel® 4-Core processor, 32 GByte DRAM
- L2/L3 Managed Ethernet Switch
- Qualified to DO-160G, Line-fit Ready

ACE Flight™ 4780 MODMAN

Kontron's AF4780 MODMAN has been designed in accordance with ARINC 791/792 and is configured with one SATCOM modem. The MODMAN also includes an Intel® Xeon® 4-Core processor, L2/L3 Managed Ethernet Switch, cellular modem, ARINC 429/717 and fixed storage options. Kontron has designed

its ACE Flight™ 4780 MODMAN product family to support different satellite modem configurations (ordering options) under a project basis. 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
SATCOM MODEM		Configuration dependent - Gilat Taurus Modem *Other modems planned, contact factory for latest updates
PROCESSOR / MEMORY		Intel® E2S E3-1505L 4-Core Processor, P530 HD Graphics 32 GByte DDR4, ECC, RAM TPM 2.0
ETHERNET SWITCH		L2/L3 Managed Ethernet Switch
STORAGE		1x 128 GByte mSATA (OS/Application) 1x 1TB SSD (up to 8TB ordering Option)
RF CONNECTIONS	SATCOM CELLULAR	(1) Tx, (1) Rx RF connections (1) Rx/Tx RF (Main)
CELLULAR MODEM		4G/LTE modem with dual SIM slots
ETHERNET PORTS		12x Ethernet Ports (6x GbE, 6x 100BT)
ARINC 429 / 717		4x ARINC 429 Rx, 1x ARINC 717 Rx
OTHER		Avionics Discrettes Inputs/Outputs, APM
FRONT I/O	LEDS ETHERNET SERIAL INTERFACE	Power, Status, Receive, Transmit (RJ45), USB 2.0, VGA, 2x SIM (cellular) via USB Type B
SOFTWARE		Ubuntu 18.04 LTS, 64-bit Contact Factory for Optional Software and other OS support
POWER		115 V AC (360 – 800 Hz) Aircraft Power with 200 msec Hold-up 100 W nominal
ENVIRONMENT		Qualified to DO-160G , Line-Fit Ready
WEIGHT		14.4 lbs (6.5 kg)
OPERATING TEMPERATURE		-15 °C to +70 °C



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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