kontron
The Power of IoT

Use Case
Avionics

Ace Flight™ 4783

Dual Modem MODMAN Enabling Efficiency and Functionality



CHALLENGE

- The customer needed a MODMAN to accommodate two satellite modems in a single 4MCU LRU while maintaining ARINC 791/792 standards
- Two Ka-Band modems would be required
- Automatic network switching would need to occur for a seamless passenger experience across all regions

SOLUTION

- Kontron developed the Dual modem MODMAN Ace Flight™ 4783, integrating dual satellite modem cards with an RF switch
- In addition, Kontron added full Server capability within the same 4MCU package, including a Xeon processor, managed Gigabit Ethernet Switch, up to 16 TByte internal storage, a 4G Cellular Modem for ground communications, and all expected standard aircraft interfaces in an airborne server
- Kontron has designed its Ace Flight™ 4783 MODMAN product family to support different modem configurations (ordering options)

BENEFITS

- The additional features enable the use of the Dual MODMAN not only as a connectivity support but also as a combined Connectivity & Media Server for aircraft installations with Size, Weight, and Power (SWAP) constraints
- The Ace Flight™ 4783 architecture allows support for multi-orbit connectivity projects
- Being based on Kontron's in-house product technology allows for total control over lifecycles and customization
- Qualified to DO-160G and Line-Fit Ready

Kontron Canada Inc.
kontron.com

avionics@kontron.com