



## Key Facts

- Dual core processor based embedded realtime control system
- Ground and airborne use
- IRIG-B time code input for high precision data synchronization

CANflight is an embedded realtime control system for the use in aeronautical applications. CANflight units communicate through two fully independent, optically-isolated CAN/ARINC825/CANaerospace interfaces. The CANflight hardware uses a Xilinx Spartan-3 FPGA with two independent Microblaze processors. The CAN 2.0B interfaces are implemented with licensed Bosch C\_CAN controllers. The Xilinx FPGAs and the CANflight firmware provide local buffering and 60 ns time stamp resolution. High precision time synchronization of CAN messages is accomplished through an IRIG-B time code input providing 1  $\mu$ s resolution.



## Interface

- $\mu$ SDHC card-based Flight Data Recording
- Two isolated, fully independent Controller Area Network (ISO 11898), ARINC825 and CANaerospace protocol compliant interfaces
- 10/100/1000 BaseT Ethernet interface with CANaerospace over Ethernet (CoE) and ARINC825 over Ethernet (A825oE)
- IEEE 802.11 Wireless LAN Option



## Mechanical Information

- 80 x 47 x 132 mm
- Weight 320 g
- Front panel activity LED



## Electrical Supply

- USB cable
- EN2282 Aircraft power (9-36 VDC)