

UAV MC

UAV MISSION COMPUTER

Mission Computer (MC) establishes data and communication interfaces with Air Platform Wireless Radio, EO/IR Sensor Suite, Air Data Terminal Communication Unit along with the mission software of the aircraft.





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Features

- Avionics EO/IR Sensor Suite Management
- Air Data Terminal Communication
- Video Compression

Environmental Conditions

- Operating Temperature and Altitude: -40°C / +55°C, 30.000 ft.
- Storage Temperature: -55°C / +70°C

Qualifications

- MIL-STD-461 Compatible
- RTCADO-160 Compatible
- MIL-STD-704 Compatible

Technical Specifications

- PowerPC Processor
- Conduction Cooled Chassis
 - COM Express Slot
 - High Density, Compact Connectors
- Power Specifications
 - Input: 28VDC
 - Power Consumption: <65W
- Software
 - BSP and Drivers for Real-Time Operating Systems
 - Built-In Test Capability (IBIT, PBIT, CBIT)
 - ARINC 653 RTOS

Interfaces

- 2x MIL-STD-1553B
- 4x Ethernet (10/100/1000)
- 4x ARINC-429
- Serial (2x RS-232, 4x RS-485/RS-422)
- 4x Digital Video In
- 3x Analog Video In
- 2x Audio In/Out
- 2x Analog In/Out
- 2x Digital Video Out
- 1x Analog Video Out
- Discrete In/Out (8x Open/Gnd, 4x Open/28, 8x TTL)
- 1x CAN Bus
- 2x USB 2.0

Physical Specifications

- Dimensions: TBDmm*TBDmm*TBDmm
- Weight: < TBD kg

Integrated

- Solid State Drive
- GPS
- IMU
- Compass