

AGB-231

AVIONICS MISSION COMPUTER

RTCA DO-178B
CERTIFIABLE

MODULAR
HW/SW

LIGHT
WEIGHT





AGB-231

AVIONICS MISSION COMPUTER

AGB-231 establishes data and communication interfaces with MXF-484 Air Platform Wireless Radio, MILSEC-3 Secure Voice Device for HF/ VHF/UHF Radios, EO/IR Sensor Suite, Airborne Data Terminal Communication Unit along with the mission software of the ANKA UAV. AGB-231 is based on multiple, high performance quad-core PowerPC family processors.

AGB-231 is easily scalable with respect to different platform/ application requirements thanks to its modular and expandable architecture, large dynamic memory, user friendly interface, high performance processor and variety of electrical interfaces. AGB-231 does not raise the power demand of the system due to its low power consumption which is below 100W. AGB-231 can easily be fit into tight volume and weight requirements with its compact and light weight design.

General Specifications

- Avionics EO/IR Sensor Suite Management
- 3 x MXF-484 Air Platform Wireless Radio Management
- Airborne Data Terminal Communication
- 3 x 1080p30 H.264 Video Compression
- 1 x 576p30 H.264 Video Compression

Technical Specifications

- Rugged forced air cooled chassis
 - 2 x 3U VPX Slots
 - 1 x 3U VPX Slot
 - Mighty Mouse® Military Circular Connectors
- Power Specifications
 - Input : 28 VDC
 - Power Consumption : <100W
- VITA 62.0 compliant Power Supply
- Software
 - RTCA DO-178B
 - ARINC 653 RTOS

Interfaces

- 3 x MIL-STD-1553B/ MIL-STD-1760D
- 6 x Ethernet (10/100/1000)
- ARINC-429
- Serial (RS-232/RS-485/RS-422)
- 4 x SDI Video Input
- 2 x Analog Video Input
- Discrete I/Os
- Analog I/Os
- Analog Audio I/Os

Qualifications

- MIL-STD-810 / DO-160E
- MIL-STD-704
- MIL-STD-461

Environmental Conditions

- Operating Temperature and Altitude : -40°C to +55°C, 30.000 ft.
- Storage Temperature and Altitude : -55°C to +70°C, 37.000 ft.

Physical Specifications

- Dimensions: 454mm (L) x 211mm (H) x 121mm (W)
- Weight: < 8 kg