ACORE | GB

AVIONICS MISSION COMPUTER

#Avionics

RTCA DO-178B CERTIFIABLE
MODULAR HW/SW
LIGHT WEIGHT

aselsan

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AVIONICS MISSION COMPUTER

ACORE GB establishes data and communication interfaces with MXF-484 and 9681 V/UHF Airborne Radio, MILSEC-3 Secure Voice Device, EO/IR Sensor Suite, SAR Radar, Airborne Data Terminal Communication Unit along with the mission software of the ANKA UAV.

ACORE GB 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. ACORE GB does not raise the power demand of the system due to its low power consumption which is below 100W. ACORE GB 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
- 3x MXF-484 V/UHF Airborne Radio Management
- 3x 9681 V/UHF Airborne Radio Management
- SAR Radar Management
- Airborne Data Terminal Communication
- 3x 1080p30 H.264 Video Compression
- 1x 576p30 H.264 Video Compression

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

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

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

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.

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