

# ACORE | MKB

ADVANCED MODULAR COMPUTER

#Avionics



MISSION AND USER INTERFACE MANAGEMENT  
REDUNDANT OPERATION  
FIXED, ROTARY WING PLATFORM QUALIFIED



**aselsan**

# ACORE | MKB

## ADVANCED MODULAR COMPUTER

ACORE MKB Central Control Computer is the key for mission success. ACORE MKB is the mission computer which manages avionics, supports pilot with its advance processing capability, and provides relevant data to the pilot collected from aircraft systems.

Modular hardware and software design, large memory capacity, high processing capability and multiple interface support of ACORE MKB provides the capability to be integrated into various air platforms and applications.

With its reliable and rugged design, ACORE MKB operates in severe environmental conditions on fixed-wing and rotary-wing platforms with the advanced cooling and thermal management techniques.

Having flexible and scalable industry standard open architecture design, ACORE MKB meets customer and platform requirements.

### General Specifications

- System Management
- Operator Interface Management
- Communications Management
- Navigation Management
- Warning / Caution and Aural Warning Management
- Weapon System Management
- Failure Collecting and Reporting
- Data Bus Management
- Emergency/Auxiliary Operations and Zeroization Management

### Interfaces

- ARINC 429 Tx/Rx
- MIL-STD-1553B
- Ethernet
- Serial Interface (RS-232/RS485)
- Discrete Input/Output
- Analog Input/Output
- Analog Audio Output

### Physical Specifications

- Dimensions: 211 mm (H) x 156 mm (W) x 286 mm (D)
- Weight: 7.8 kg

### Technical Specifications

- Input Power: 28 VDC (Nominal)
- Power Consumption :96W (Nominal)/ 295W (Maximum)
- PowerPC Computing Processors
- ATR Form Factor, Air Cooled Chassis
  - 3U CPCI slots
  - MIL-DTL-38999 Connectors
- Power Storage for Short Time Power Loss
- DO-254 Level B Certified Hardware
- DO-178B Level B Certified Software
- Green Hills Integrity Real Time Operating System (RTOS)
- Board Support Packages and Drivers Compatible to Real Time Operating Systems
- Built In Test (BIT) Capabilities

### Environmental Conditions

- Operating Temperature and Altitude: -55°C / +70°C, 35.000 ft
- Storage Temperature: -55°C / +85°C

### Qualifications

- MIL-STD-810F
- RTCA DO-160G

