

ICCC

INTEGRATED CENTRAL CONTROL COMPUTER

MULTI-ROLE AVIONIC MISSION COMPUTER
MODULAR, OPEN ARCHITECTURE DESIGN
REDUNDANT OPERATION





ICCC

INTEGRATED CENTRAL CONTROL COMPUTER

ICCC is the central control computer of the aircraft. ICCC interfaces and performance characteristics are easily scaled to the platform/application needs with the help of modular hardware and software design.

Large memory capacity, high processing capability, multiple interface support, compact and rugged architecture enables the pilot to perform the mission accurately and efficiently.

In addition to the mission, graphics and weapon management software/hardware on ICCC, Digital Moving Map (DMAP) Electronic Unit and AVCI Helmet Integrated Cueing System (HICS) functionalities are also available internally.

ICCC meets additional functionality requirements, thanks to flexible and scalable industry standard open architectures and indigenous VME boards designed by ASELSAN.

General Specifications

- System Management
- Operator Interface Management
- Communications and Identification Management
- Navigation Management
- Tactical Surveillance Management
- Weapon System Management
- Emergency/Auxiliary Operations and Zeroization Management
- Mission Planning
- Synthetic Voice Generation
- Digital Moving Map
- AVCI Helmet Integrated Cueing System Management

Technical Specifications

- PowerPC Processor
- Power Hold-Up for Short Power Interrupts (min. 50 ms)
- DO-178B Compatible Domestic and National Mission Software
- BSP and Drivers for Real-Time Operating Systems with Built-In Test Capability
- Synthetic Voice Generation
- 28 VDC Power Input, Optional AC Powered Cooling Fans
- Qualified for, MIL-STD-461, MIL-STD-704, DO-160 Section 25.0, MIL-STD-810 Civil and Military Environmental Conditions

Interfaces

- 16x ARINC-429 Tx/Rx Interfaces
- 7x Redundant MIL-STD-1553B Interfaces
- 5x Ethernet (10/100/1000 Mbit) Interfaces
- 26x Serial Communication (RS-232/RS-422/RS-485) Interfaces
- 212x Discrete I/O Interfaces
- 13x Analog Video Input/Output Interfaces
- 6x Digital Video Input/Output Interfaces
- 2x LVDS Video Interfaces
- 2x ARINC-818 Output Interfaces
- 3x Analog Signal Interfaces
- 2x Synthetic Voice Outputs

Qualifications

- MIL-STD-810 / DO-160 Section 25.0
- MIL-STD-704
- MIL-STD-461

Environmental Conditions

- Operating Temperature and Altitude: -40°C / +55°C, 15.000 ft.
- Storage Temperature: -55°C / +85°C

Physical Specifications

- Dimensions: 481 mm (Length) x 221 mm (Height) x 255.4 mm (Width)
- Weight: ~23 kg