ACORE | CPMU

COMMON PROCESSING AND MANAGEMENT UNIT

#Avionics

MODULAR AVIONIC ARCHITECTURE COMPATIBILITY
COMPACT AND LIGHTWEIGTH DESIGN
DIGITAL MOVING MAP CAPABILITY

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ACORE CPMU mission computer provides the management of avionic systems integrated to aerial platform with its modular architecture and advanced processing capability to reduce pilot's workload.

With the expansion feature of the modular architecture, additional ACORE CPMU can be installed to the platform in order to increase the number of interfaces and performance of the system. Redundancy function that is gained by additional mission computer integration, improves the system safety and reliability.

Large memory capacity, high processing power and graphic processing capability enables the ACORE CPMU to incorporate mission management and Digital Moving Map applications simultaneously.

High processing performance, multiple interface support and the flexible hardware/software architecture of ACORE CPMU provides integration to various air platforms and applications.

Reliable, rugged, compact and lightweight CPMU is designed to operate in severe environmental conditions.

General Specifications
- System Management
- Operator Interface Management
- Navigation and Communication Management
- Mission Planning
- Weapon System Management
- 3D Synthetic Vision and Digital Moving Map

Interfaces
- MIL-STD-1553B
- Ethernet (10 / 100 / 1000 Mbit/s)
- USB 2.0
- ARINC-429 Input / Output
- Serial Data Bus (RS-232 / RS-485 / RS-422)
- Display Port Digital Video Input / Output
- Discrete Input / Output
- 1PPS Input

Physical Specifications
- Dimensions: < 160 mm (W) x 220 mm (H) x 250 mm (D)
- Weight: < 7.5 kg

Technical Specifications
- Real Time Operating System
- DO-178B Level A Compatible Software
- Compatible to ETSO-C153A
- 2 TB Internal Memory
- Power Input: 28 VDC (Nominal)
- Power Consumption: < 120W (Nominal) / < 150W (Maximum)
- Power Hold-Up for Short Power Interrupts

Environmental Conditions
- Operating Temperature and Altitude: -40°C / +71°C, 55.000 ft
- Storage Temperature: -55°C / +85°C

Qualifications
- DO-160G

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