Selected for U.S. Army UH-60M

- Large 3” x 5” (76 mm x 127 mm) flat-panel TFEL display
- Sunlight readable and NVIS compatible
- Large screen with fixed header, reduces paging and pilot workload
- Graphics co-processor provides a drawing and animation capability
- Spare capacity for direct interfacing to subsystems, which in many cases, eliminates the need for additional hardware
- Single-box system requiring only eight inches (203 mm) behind the instrument panel
- Standard dual-redundant MIL-STD-1553B interface, operating as either a Bus Controller or Remote Terminal
- ARINC 429 interfaces or other customer-specified interfaces are available
- Comprehensive BIT and reporting
- Ethernet communications available

The CMA-2082M Flight Management System is a self-contained, intelligent multifunction control and display unit. The CMA-2082M integrates navigation sensors and radios, communications radios, displays and other mission avionics and aircraft systems.

The CMA-2082 is currently used by military forces around the world on board fixed-wing aircraft and helicopters.
CMA-2082M FLIGHT MANAGEMENT SYSTEM - CHARACTERISTICS

GENERAL
Size 5.75" x 10.9"h x 7.8"d (146 mm x 277 mm x 198 mm), plus mating connector
Weight 12 lb (5.44 kg)
Power Requirements 28 Vdc
45W nominal
60W maximum (operational)
Cooling Convection/radiation. No external cooling required
External Connectors Three MIL-C-38999 series IV, providing up to 158 pins, one dedicated to Ethernet

DISPLAY
Type Flat Panel Thin Film Electroluminescent (TFEL)
Resolution 64 lines/inch
Active Display Size 3" x 5" (76 mm x 127 mm), 192 x 320 pixels
Display Capacity 20 lines of 21 characters
Color NVIS yellow, peak at 575nm
Viewing Angle ±150° in any axis (>45° on edges by the bezel)
Sunlight Readability Readable in 10,000 fc incident light
NVG Compatibility MIL-STD-3009 Type 1 Class A NVIS
MTBF >5,000 operating hours (MIL-HDBK-217E)

KEYBOARD/SWITCH PANEL
Keys 10 soft, 65 independent alphanumeric/mode, 2 rocker
Annunciators 3 incandescent, NVG compatible
Integral Lighting 5 VAC/DC, LED, NVG compatible, externally supplied
NVG Compatibility MIL-STD-3009 Type 1 Class A NVIS

INTERFACE CAPABILITY
Standard Dual MIL-STD-1553B, as either Bus Controller, Backup Bus Controller or Remote Terminal
RS-422 (used principally for BIT)
Spare Card Slots 4, each providing 24 sq. in. (154.8 cm²)
ARINC 429 I/O
ARINC429 and MIL-STD-1553B bussed equipment
Interface Options Discrete, analog, non-standard digital
Digital/synchro or synchro/digital, custom interfacing
Ethernet

PROCESSOR/SOFTWARE
Processor 64 bit MPC 8260
Graphics Intel 82786 Graphic Co-Processor
Memory (on CPU Card) Static RAM 6 Mbyte
UV RAM 2 Mbyte
(programmable via MIL-STD-1553B or RS-422 interface)
Flash EPROM 32 Mbyte
Additional memory: available in option card slots
Program Language Ada, C, and Assembler
Core Software Controls all hardware functions
Navigation control (MAR compliant)
Mission management
ASE/navails/flight instruments
Application Software Capable of downloading application software via MIL-STD-1553B or RS-422 interface
Other software can be developed to specification by the user or CMC Electronics

ENVIRONMENT
MIL-STD-5400T Class 1A

EMI-EMC
MIL-STD-461 and MIL-STD-462