

CMA-9000CT

Advanced Flight Management and Control Display Unit

Ideal replacement for previous-generation FMS

- Multi-Sensor FMS (INS, GPS, DME, VOR)
- RNP-0.3 compliant as per DO-236/283. Fully ICAO RNP and U.S. RNAV compliant
- Triple FMS synchronization
- ARINC-424-16 compliant Navigation Database with continuous upgrades as new features are added
- 16 Mb database size with optional expansion to 300 Mb
- 200 waypoints per flight plan.
 Alternate route. All ARINC-424 leg types are supported

- Airline standard page formats providing minimal training impact
- Performance VNAV for Climb, Cruise and Descent (option)
- VNAV coupled with autopilot and autothrottle (option)
- Full datalink AOC, FANS-1/A CPDLC, ADS and AFN in service with Asian airlines, giving 30/30 separation (option)
- 1,000,000 flight hours of FMS operation experience on B747 Classics and other airliners with major airline and cargo operators
- Compatible with Enhanced Surveillance requirements
- Sunlight readable colour Active Matrix Liquid Crystal Display
- Single FMCDU incorporating both FMS and ARINC 739 MCDU

- ARINC 739 MCDU capable to interface with up to 7 subsystems
- Upgrade path for continuous addition of new features (Flight Path intent bus, cost indexed performance optimization, ATN, Link 2000, etc)







CMA-9000CT ADVANCED FLIGHT MANAGEMENT AND CONTROL DISPLAY UNIT - SPECIFICATIONS

PHYSICAL

Size 6.75" H x 5.75" W x 6.5" L

(171.5 x 146 x 165 mm)

Weight 8.3 lb (3.7 kg)

Power Consumption 45 W @ 28 VDC typical load

75 W @ 28 VDC heater on typical load

Lighting Integral keyboard lighting: external control

Display dimming lighting: external/internal

control

Passive Cooling No forced-air required

External Connector MIL-STD-D38999/20FJ35AN mating with

MIL-STD-D38999/26FJ35SN

(128 pins ea.)

Reliability Rotary-wing: 6,500 hours MTBF, airborne (predicted)

Fixed-wing: 9,500 hours MTBF, airborne (predicted)

Mounting 5.75" (146 mm) wide

(MS-25212) DZUS rails

DISPLAY

Type Active-matrix LCD, 8 colors
Screen Size 4" x 3" (101 mm x 76 mm)

Resolution 320 horizontal x 234 vertical/RGB

Alphanumeric Data 14 lines of 24 characters

(including scratchpad)

Viewing Angle \pm 45°H; + 10°V/-30°V Contrast Ratio \pm 2:1 daylight; 20:1 night

Luminance 0.25 to 120 fl (standard display)

0.25 to 3.0 fl (NVG display)

NVG Compatible MIL-L-85762A NVIS green B

OPERATOR INTERFACE

Line Select Keys 12
Function Keys 15
Alphanumeric Keys 41
Annunciators 9

Integral Keyboard Lighting 5 VAC/DC, 0-28 VDC sense or

or Display Dimming supply

SIGNAL INTERFACE/SOFTWARE

ARINC 24 ARINC 429 input

8 ARINC 429 outputs

RS-422/232 4 RS-422 transceive port

1 RS-232 transceive port

Discrete Inputs 16 open/ground or 28V/0V or 28V/open

Discrete Outputs 8 open/ground (max 500 mA sink)

Processor Pentium class, 220 MHz

Software DO 178B Level C

APPROVAL/ENVIRONMENTAL

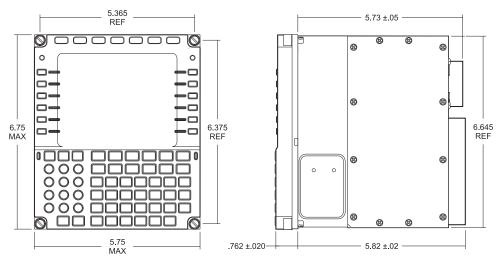
Approvals TSO-C113, TSO-C115b

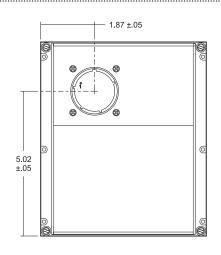
TSO-C129a Class A1

TSO-C129a Class B1/C1 with approved

external GPS receiver

Environment RTCA DO-160E, DO-254





Front View Side View Rear View

Dimensions are in inches



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For information purposes only. To accommodate product improvements, specifications are subject to change without notice. 9000CT-6 03/08 PRINTED IN CANADA

