



MFD-4068 MULTIFUNCTION DISPLAY

ADVANCED DISPLAY TECHNOLOGY

Ruggedized for demanding environments

Collins MFD-4068 multifunction displays feature a highly flexible, robust design optimized for use in rotary-wing, fighter, bomber and trainer environments. The 8-by-6-inch, active matrix liquid crystal display (AMLCD) offers reduced size, weight, power and cost.

The MFD-4068 displays provide an advanced multi-core processing/graphics system designed for qualification to

military airworthiness standards, while also meeting the civil safety certification requirements necessary for full use of all processor cores when hosting multiple criticality (DAL A-E) software applications.

They are available in portrait or landscape orientations with optional bezel key panels or touchscreen and an extensive data interface complement.

KEY FEATURES AND BENEFITS

- Latest AMLCD technology provides high resolution, high brightness display
- Optional multi-touch resistive touchscreen
- Assured Multicore™ processing components meet civil safety certification with use of all processor cores
- Optional independent digital video output drives a head-up display (HUD), repeater or independent display surface
- Rugged, lightweight design for reliable performance in extreme environments

SPECIFICATIONS

Display

Type	Active Matrix Liquid Crystal Display (AMLCD)
Size	208.5 mm x 157.7 mm (8.28" x 6.21") active viewing area
Resolution	1024 x 768 (XGA) resolution with 124 dpi
Brightness	>300 fL
NVIS	MIL-STD-3009, class B, and MIL-L-85762A, class B
Touchscreen	Optional 8" x 6" resistive multi-touch

Processing

General purpose processing	NXP T2080 @ 1.2 GHz
Memory	4 GB DDR3, 1 GB NOR flash, 4 MB NVM, 32-64 GB NAND flash
2D graphics	Collins Aerospace developed embedded GPU certified for DAL A applications
3D graphics	AMD E6760 embedded GPU OpenGL graphics engine certified for DAL B applications

Certification

Hardware	ARP-4754, DO-254 DAL A
Software	DO-178C DAL A/B

Physical

Size	254 mm x 203.2 mm x 114.1 mm (10" x 8" x 4.49"), excluding rear connectors
Weight	6.58 kg, (14.5 lb)
Mounting	Front mount, four captive mounting screws
Cooling	Internal fan
Operating temperature	-40° C to 71° C
Storage temperature	-55° C to 85° C
MTBF	>6,000 operating hours

Power

Input power	+28 VDC display power
Power dissipation	135 W maximum (LCD heater off), 265 W maximum (LCD heater on)

Environment

Qualification	DO-160G, MIL-STD-461F (optional), MIL-STD-810G (optional)
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Interfaces

Data	ARINC 429 inputs (32) ARINC 429 outputs (8) 10/100 Base-T Ethernet MIL-STD-1553 (optional) AFDX (optional)
Analog/discrete	Ground/open input discrete (30) 28 V/open input discrete (8) Analog inputs (8)
Analog/digital video	Two SMPTE-292M inputs, 1080i or 720p Two analog RGB inputs, configurable for Stanag, NTSC, PAL or SGA sync on green Two ARINC 708 WXR/terrain inputs Two optional ARINC 818 inputs

Specifications subject to change without notice.



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