



Advanced Visualization

CDMS-3000

Control Display & Management System



Main features:

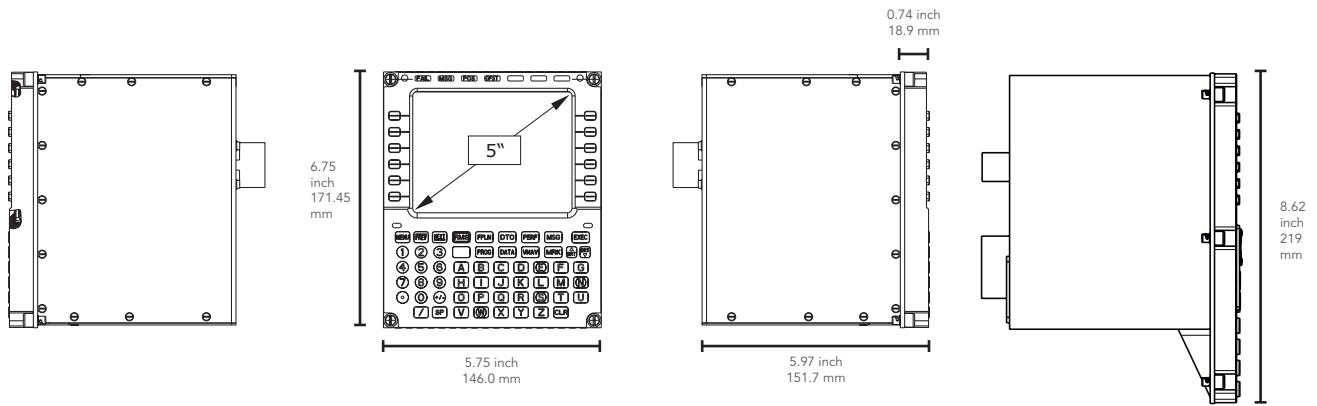
- 5.75" DZUS rack mountable
- Two keyboard sizes
- 3" x 4" sunlight-readable color display
- 640 x 480 standard resolution (VGA)
- NVG compatible
- Compact 6.75" high design
- Various interface capabilities:
 - USB 2.0 on request
 - Video composite input on request
 - Discretes
 - ARINC 429
 - MIL-STD-1553B
 - Ethernet (100/10 Mbit)
- Unique LED backlight technology
- Usable as data loader
- Extensive Built-In-Testing (BIT)
- MOSArt™ support (CDMS-3702)
- Compliant with DO-178B up to level B
- Compatible with customer-specific software
- 7s memory hold (CDMS-3702) on request

CDMS-3000 is ScioTek's latest generation Control Display & Management System, featuring a 3 x 4 inch AMLCD panel with VGA resolution. Equipped with the latest display technology, the advanced CDMS-3000 combines high brightness and contrast with compact dimensions, low weight and excellent energy efficiency.

The CDMS-3000 comes as a complete product family, including the civil CDMS-3739 (ARINC 739), the military-oriented CDMS-3753 (combo ARINC-429 and MIL-STD-1553), and the versatile CDMS-370x, which hosts ScioTek's unique MOSArt™ platform. This MOSArt™-equipped version allows customers to develop or integrate their own application (e.g. FMS or mission solution) on the flexible CDMS-3000 platform.

Various keyboards with different engravings and/or colors are possible to facilitate integration into a diversity of new and retrofit cockpit configurations. A cold wall air cooling system ensures optimum reliability and low life-cycle costs, even in the harshest operating environments.

Technical specifications



CDMS-3000

Electro-optical		Processing	
Panel type	Active Matrix LCD (Silicon TFT)	Processor	PowerPC
Panel active area	12.7 cm / 5 inch diagonal	Memory	128 MB SDRAM ECC memory, (optional 256 MB) 128 MB Flash memory (optional 256 MB) 128 kB NVRAM (optional 256 kB)
Pixel dimensions	0.16 mm H x 0.16 mm V Vertical stripe RGB, 160 PGPI	General specifications	
Panel resolution	640 x 480 pixels (VGA)	Power supply	Dual input 28 Vdc, DO-160E
Image dimensions	102.2 x 74.8 mm / 4.02" x 2.94" (4/3)	Keyboard light contr.	5 Vd
Screen specifications	262,144 colors - 64 grayscales	Annunc. light contr.	5 Vdc
Brightness	160 fL	Power consumption	35 W (nominal) / 70 W (cold start)
Contrast ratio	> 400:1 @ dark environment > 10:1 @ 10,000 fC	Weight	3 kg / 6.6 lb (CDMS-3739)
Anti reflection	Multilayer coating, MIL-C-14806	Cooling	Fan-based cooling via cold wall
NVG compatibility	MIL-STD-3009 Type I, Class B NVIS (option)	MTTR	Less than 0.5 hours
Viewing angle	Hor: $\pm 45^\circ$ Vert: $+30^\circ/-15^\circ$	MTBF (calculated)	11,500 hrs (CDMS-3702 - AIC 35°C) 5,300 hrs (CDMS-3702 - ARW 35°C)
Interfaces		Built-In Testing	IBIT, CBIT, PBIT
Arinc 739 only versions		Software	RTCA/DO-178B level B
Discrete Inputs:	8 CDMS-3739 (up to 22 on other versions)	Environmental conditions	
Discrete Outputs:	1 CDMS-3739 (up to 11 on other versions)	Compliance	RTCA/DO-160E (MIL-STD-810E as option)
A429 Inputs	8 CDMS-3739 (up to 24 on other versions)	High temperature	+70°C operational, DO-160E Sect. 4 Cat B2
A429 Outputs	3 CDMS-3739 (up to 11 on other versions)	Low temperature	-45°C operational, DO-160E Sect. 4 Cat B2
Additional I/O on other versions		Operational at -45°C	1 min usable 5 min. full specs
Single dual redundant		Temp. storage	-55°C/-67°F up to +85°C/+185°F
MIL-STD-1553B	RT or BC (double dual redundant on request)	Altitude	DO-160E Sect. 4 50,000 ft
A708 Inputs	Up to 2 (on request)	Humidity	DO-160E Sect. 6 Cat B
USB	1 rear (on request)	Shock	20 G - 11 ms, DO-160E Sect. 7 Cat B
Ethernet	2 (option)	Vibration	DO-160E Sect. 8 Cat R (G), S (M)
Contact ScioTeq to discuss your interface requirements.		EMI/EMC	DO-160E
Controls		TSO C113	
Controls (front)	Brightness, Up/Down rocker switch	Options (common to all versions)	
Function keys	15	<ul style="list-style-type: none"> Small or large keyboard NVIS compatibility Keyboard color and engraving change For other custom options, please contact ScioTeq 	
Annunciators	Up to 6 above the display 1 on each side of the first line of function keys		
Softkeys	12 (6 left, 6 right of the display)		
Keyboard	Full alphanumeric keyboard		
Automatic light contr.	2 light sensors		

Please contact ScioTeq for availability

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The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.

AD-CDMS 3000-17_003

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