

PROGRAMMABLE DISPLAY

Military Graded Rugged Programmable Tactical Awareness Controller
8.4" IP67/NEMA 6 Enclosure, VGA/DVI-I/RS170/(20) Tactile Programmable Buttons
LED Backlight (3000:1 Dimming Ratio) ,AR and AG Treatments, Enhanced Sunlight Readability
MIL-STD461/704/810/1275. External cables are not included, (1) RS170 Output? (2) DVI-I/VGA Input
RS170 inputs are composite and accept NTSC or PAL format video(Accept black and white as well as color video) If video input isn't NTSC or PAL, please provide resolution and frequency.



Model: DOT0840

Highly Ruggedized Display offers Programmable Bezel Keys (ASCII or HEX code via RS-232 or RS-422 protocol) for control of external systems and/or internal display features. Multiple video and computer inputs (DVI-I, RS-170, VGA) and multiple mounting options allow for seamless integration within any rugged system.

STANDARD FEATURES

- User Programmable Bezel Keys (20), RS-232/RS-422 -Internal and/ or External Use
- Composite Video Inputs (4), PIP Capable
- Composite Video Output (1)
- Auto Sensing NTSC, PAL Formats
- DVI-I/VGA Inputs (2)
- SVGA Resolution (800x600)
- MIL-C Power*
- LED Backlight (3000:1 Dimming Ratio)
- Anti-Reflective and Anti-Glare Treatments
- Enhanced Sunlight Readability
- IP67/NEMA 6 Enclosure (Sealed Connectors*)
- 8.4" TFT AMLCD
- MIL-STD-461, 704, 810, 1275



PROGRAMMABLE BUTTON INTERFACE FEATURES:

- Integrated Bezel Key Assignment/Naming Capability
- Computer-based software available for integration of existing code

OPTIONAL FEATURES:

- Resistive Touch Screen (USB or RS-232 Interface)
- XGA Display Resolution (1024x768)
- Night Vision Compatible – Monochrome Red/Green
- NVIS MIL-STD-3009 Class B White Compliant
- Remote Backlight Control (via Serial Command)

* Cables not included

MOUNT OPTIONS:



Corner



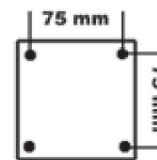
Panel



RAM



Side



VESA



SPECIFICATIONS:

LCD SIZE	RESOLUTION	BRIGHTNESS	VIEWING ANGLE	CONTRAST RATIO	MAXIMUM POWER CONSUMPTION
8.4" TFT AM LCD	SVGA (800x600)	800 nits	160° (H) x 130° (V)	900:1	30 Watts

TECHNICAL SPECIFICATIONS

Display	8-bit color, 16,777,216 colors. TFT AMLCD (Thin-Film Transistor Active-Matrix Liquid-Crystal Display)
Dimming Ratio	3000:1
Video Inputs	Composite Video (4), Auto Sensing NTSC, PAL-BGHID Formats; DVI-I/VGA (2)
Video Outputs	Composite Video (1)
Housing	Milled Aluminum, Black Hard Anodized
Mount Options	Corner, Panel, RAM, VESA (75mm), Side (12.1"-15.0" sizes); Quoted individually.
Wide Range DC Power Input	10-36 VDC (12, 24, 28 VDC nominal)
Power Conditioning	Protected against Internal Short Circuit, Load Dump, Over Voltage and Reverse Polarity

ENVIRONMENTAL SPECIFICATIONS

IP Rating	IP67 (NEMA 6 Submersible)
Operating Temperature	-40°C to 71°C (-40°F to 160°F); (-20°C (-4°F) with Touch Option)
Storage Temperature	-51°C to 71°C (-60°F to 160°F)
Humidity	0-100%
Altitude	45,000 ft.

MILITARY SPECIFICATIONS

MIL-STD-461	EMI	MIL-STD-810	Method 512, Immersion
MIL-STD-704	Aircraft Power Requirements	MIL-STD-810	Method 512; Immersion
MIL-STD-810	Method 500; Altitude	MIL-STD-810	Method 513; Acceleration
MIL-STD-810	Method 501; I & II; High Temperature	MIL-STD-810	Method 514; Procedure I, II, V, VI; General Vibration
MIL-STD-810	Method 502; I & II; Low Temperature	MIL-STD-810	Method 516; Procedure I, Functional Shock
MIL-STD-810	Method 503; Temperature Shock	MIL-STD-810	Method 520; Temp, Humidity, Vibration, and Altitude
MIL-STD-810	Method 505; Solar Radiation	MIL-STD-1275	Vehicle Power Requirements
MIL-STD-810	Method 506; Rain	MIL-STD-1472	Thermal Contact Hazard
MIL-STD-810	Method 507; Humidity	MIL-STD-3009	NVIS Compatible (Optional)
MIL-STD-810	Method 508; Fungus	MIL-PRF-22885	Sunlight Readability for Push Buttons
MIL-STD-810	Method 509; Salt/Fog	MIL-A-8625	Standard Finish, Type III, Class 1 & 2
MIL-STD-810	Method 510; Blowing Sand and Dust	MIL-PRF-22750	Painted Finish, Optional, Minimum Quantity Required
MIL-STD-810	Method 511; Explosive Atmosphere	MIL-DTL-26842	(and 38999) Connector, Qualified

* - Cables not included.

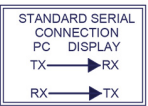
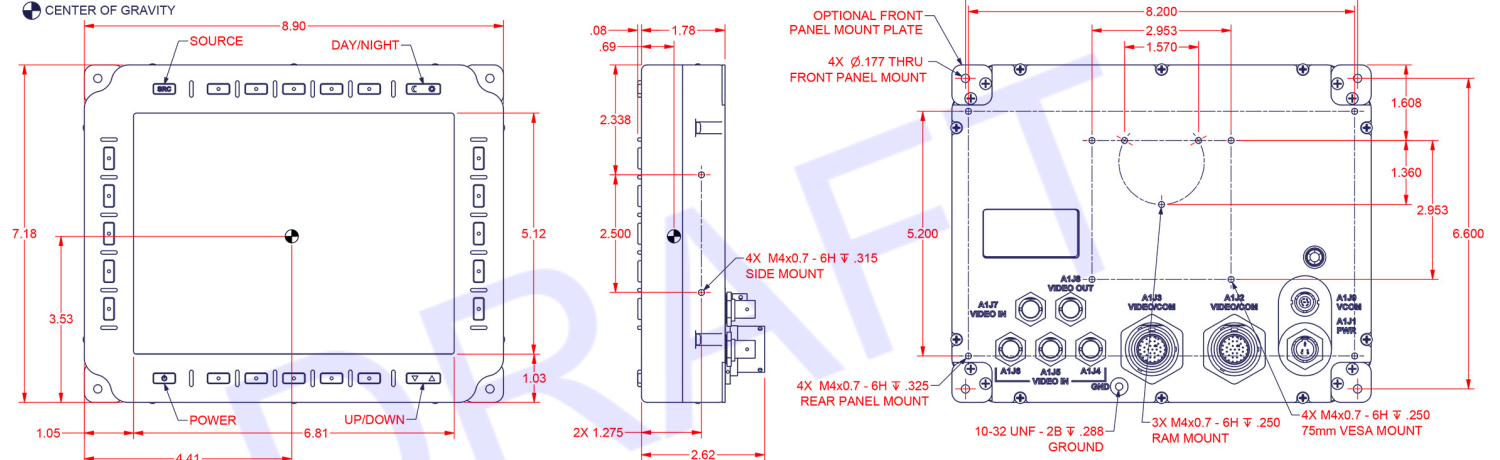
† - Power range specified covers momentary environmental fluctuations generally found in a mobile environment while display is operating. For power initialization and continual operation, nominal voltages are required.

***Specifications subject to change without notice, not responsible for typographical errors.**

MECHANICAL DRAWINGS:

This is subject to change without Notice. Final Drawings Will be Provided for Approval after Order.

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POWER 3 PIN RECEPTACLE MIL-C-26462 SERIES I CONNECTOR AL12 PWR		17 PIN RECEPTACLE MIL-C-26462 SERIES I CONNECTOR AL12 VIDEO/COM		17 PIN RECEPTACLE MIL-C-26462 SERIES I CONNECTOR AL13 VIDEO/COM	
PIN	SIGNAL	PIN	SIGNAL	PIN	SIGNAL
A	28 VOLT DC	1	DVI REC	1	DVI REC
B	28 VOLT RTN	2	DVI REC	2	DVI REC
C	NC	3	DVI REC GND	3	DVI REC GND
Amphenol #	71-83371-33P (3-pin power)	4	DVI DDC SCL	4	DVI DDC SCL
Mat#	PI06E333SR (141247)	5	DVI DDC SDA	5	DVI DDC SDA
Strain #	100000	6	DVI VSYNC	6	DVI VSYNC
Cable Assy#	00002	7	DVI REC+	7	DVI REC+
		8	DVI REC+	8	DVI REC+
		9	DVI REC GND	9	DVI REC GND
		10	DVI REC-	10	DVI REC-
		11	DVI DDC GND	11	DVI DDC GND
		12	DVI REC	12	DVI REC
		13	DVI REC	13	DVI REC
		14	DVI REC	14	DVI REC
		15	DVI REC GND	15	DVI REC GND
		16	DVI REC-	16	DVI REC-
		17	DVI REC	17	DVI REC
		18	DVI REC GND	18	DVI REC GND
		19	DVI REC	19	DVI REC
		20	DVI AN GREEN	20	DVI AN GREEN
		21	DVI AN BLUE	21	DVI AN BLUE
		22	DVI HSYNC	22	DVI HSYNC
		23	ANALOG GND	23	ANALOG GND
		24	DIGITAL GND	24	DIGITAL GND
		25	USB TOUCH	25	USB TOUCH
		26	USB TOUCH	26	USB TOUCH
		27	DIGITAL GND	27	DIGITAL GND
		28	RS-232 RXD TOUCH	28	RS-232 RXD TOUCH
		29	DIGITAL GND	29	DIGITAL GND
		30	RS-232 TXD COM	30	RS-232 TXD COM
		31	RS-232 TXD COM	31	RS-232 TXD COM
		32	RS-232 RXD COM	32	RS-232 RXD COM
		33	DIGITAL GND	33	DIGITAL GND
		34	RS-422 TX COM	34	RS-422 TX COM
		35	RS-422 TX COM	35	RS-422 TX COM
		36	RS-422 RX COM	36	RS-422 RX COM
		37	RS-422 RX COM	37	RS-422 RX COM
Amphenol #	803-015-072N6-7PIN	Amphenol #	ME27487E158358	Amphenol #	ME27487E158358
Mat#	803-001-062N6-7PIN	Mat#	ME27487E158358 (141273)	Mat#	ME27487E158358 (141273)
Strain #	100000	Strain #	M505080-3-140V (141281)	Strain #	M505080-3-140V (141281)
Cable Assy#	00072	Cable Assy#	00073	Cable Assy#	00073

Drawing No.: DOT0840-07272023-V1

