## PROGRAMMABLE DISPLAY

Military Graded Rugged Programmable Tactical Awareness Controller 10.4" IP&7/NEMA & Enclosure, VGA/DVI-I/R\$170/(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. Note: All Military grade related units are NCNR. Non-cancellable and Non-returnable +Upgrade Resolution from SVGA (800 X 600) to XGA (1024 X 768) +Resistive Touchscreen with USB Controller +12-36VDC



## Model: DOT1040-X-TR

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\*)
- 10.4" TFT AMLCD
- MIL-STD-461, 704, 810, 1275



- 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



Corner



Panel



RAM



VESA



Side

### SPECIFICATIONS:

LCD SIZE	RESOLUTION	BRIGHTNESS	VIEWING ANGLE	CONTRAST RATIO	MAXIMUM POWER CONSUMPTION	
10.4" TFT AM LCD	XGA (1024x768)	1000 nits	160° (H) x 130° (∨)	700:1	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.

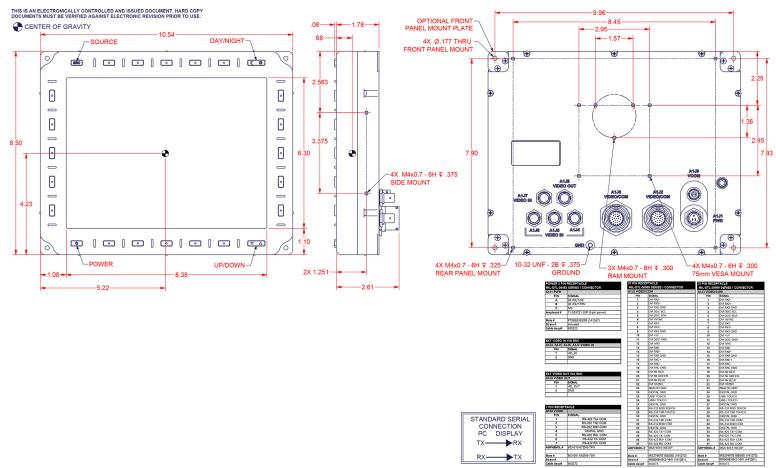
Power range specified covers momentary environmental fluctuations generally found in a mobile environment while display is operating. For power initialization and continual operation, nominal voltages are required.

\*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.



Drawing No.: DOT1040-X-TR-03162023-V1

