

# PROGRAMMABLE DISPLAY

**Military Graded Rugged Programmable Tactical Awareness Controller 10.4"**  
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.  
+Resolution XGA (1024 X 768)  
+Non Touch



## Model: DOT1040-X

Highly ruggedized display offering ASCII or HEX code (via RS232 or RS422) protocol for control of external systems and/or internal display features. Multiple video and computer inputs (DVI-I, RS170, VGA) and multiple mounting options allow for easy integration within any rugged system.

### STANDARD FEATURES

- (20) Tactile Programmable Buttons
- (4) RS170 Inputs, PIP Capable
- (1) RS170 Output
- (2) DVI-I/VGA Input
- Auto Sensing NTSC/PAL
- MIL-C Power\*
- LED Backlight (3000:1 Dimming Ratio)
- Anti-Reflective and Anti-Glare Treatments
- Enhanced Sunlight Readability
- IP67/NEMA 6 Enclosure
- 8.4" TFT AM LCD
- MIL-STD-461 Compliant
- MIL-STD-704 Compliant
- MIL-STD-810 Compliant
- MIL-STD-1275 Compliant



\* Please note cables not included.

### PROGRAMMABLE BUTTON INTERFACE FEATURES:

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

### OPTIONAL FEATURES:

- Analog Resistive Touch Screen
- XGA Display Resolution (1024x768)
- NVIS MIL-STD-3009 Red/Green Compatible

### MOUNTING:



Front Mount



Panel Mount



RAM Mount



Side Mount



VESA Mount

**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° (V)	700:1	TBD
<b>TECHNICAL SPECIFICATIONS</b>					
Display	8-bit color, 16,777,216 colors				
Dimming Ratio	3000:1				
Video Inputs	VGA/DVI-I				
Video Outputs	(1) RS170				
Connectors*	MIL-C Connectors				
Housing	Milled AL, Black Hard Anodized				
Mounting	Panel, RAM, 75mm VESA Mount, Side Mount (12.1"-17.5" sizes)				
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				
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
IP Rating	IP67 (NEMA 6 Submersible)				
Operating Temperature	-40°C to 70°C (-40°F to 158°F)				
Storage Temperature	-50°C to 80°C (-58°F to 176°F)				
Humidity	0-100%				
Altitude	45,000 ft.				
<b>MILITARY SPECIFICATIONS</b>					
MIL-STD-461	EMI				
MIL-STD-810	Method 501.4 II-Op; High Temperature				
MIL-STD-810	Method 502.4 II-Op; Low Temperature				
MIL-STD-810	Method 514.5; Procedure I, General Vibration				
MIL-STD-810	Method 516.5; Procedure I, Functional Shock				
MIL-STD-1275D	Vehicle Power Requirements				
MIL-STD-3009†	Optional NVIS Compatibility				
MIL-PRF-22885	Sunlight Readability for Push Buttons				
MIL-A-8625 Type III (Class 1 & 2)	Standard Finish				
MIL-PRF-22750F	Optional Painted Finish - Min. Qty Required				
MIL-DTL-26482	Connector (Qualified)				
MIL-DTL-38999	Connector (Qualified)				

-Please note cables not included.

-The 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.*

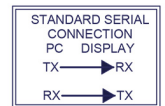
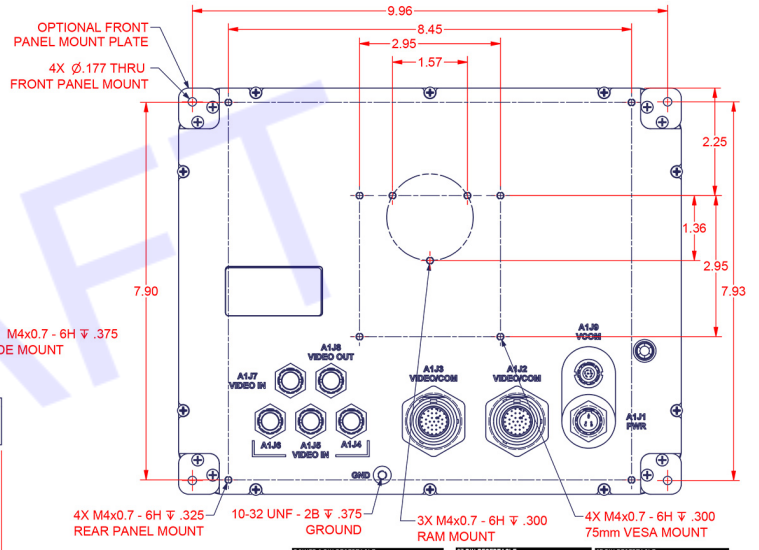
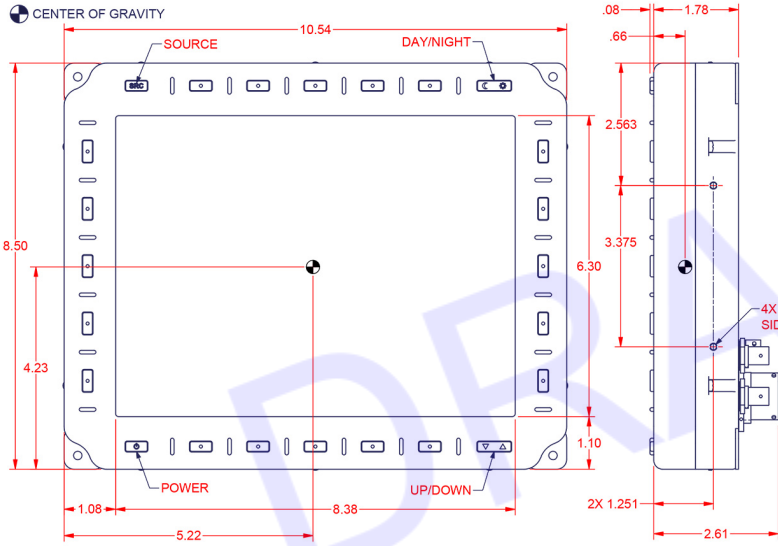


# MECHANICAL DRAWINGS:

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

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10 PIN RECEPTACLE MILCPL03048 SERIES I CONNECTOR		12 PIN RECEPTACLE MILCPL03049 SERIES I CONNECTOR		17 PIN RECEPTACLE MILCPL03046 SERIES I CONNECTOR	
Pin	SIGNAL	Pin	SIGNAL	Pin	SIGNAL
1	24V DC VCC	1	DATA0	1	DATA0
2	24V DC VCC	2	DATA1	2	DATA1
3	24V DC VCC	3	DATA2	3	DATA2
4	24V DC VCC	4	DATA3	4	DATA3
5	24V DC VCC	5	DATA4	5	DATA4
6	24V DC VCC	6	DATA5	6	DATA5
7	24V DC VCC	7	DATA6	7	DATA6
8	24V DC VCC	8	DATA7	8	DATA7
9	24V DC VCC	9	DATA8	9	DATA8
10	24V DC VCC	10	DATA9	10	DATA9
11	24V DC VCC	11	DATA10	11	DATA10
12	24V DC VCC	12	DATA11	12	DATA11
13	24V DC VCC	13	DATA12	13	DATA12
14	24V DC VCC	14	DATA13	14	DATA13
15	24V DC VCC	15	DATA14	15	DATA14
16	24V DC VCC	16	DATA15	16	DATA15
17	24V DC VCC	17	DATA16	17	DATA16
18	24V DC VCC	18	DATA17	18	DATA17
19	24V DC VCC	19	DATA18	19	DATA18
20	24V DC VCC	20	DATA19	20	DATA19
21	24V DC VCC	21	DATA20	21	DATA20
22	24V DC VCC	22	DATA21	22	DATA21
23	24V DC VCC	23	DATA22	23	DATA22
24	24V DC VCC	24	DATA23	24	DATA23
25	24V DC VCC	25	DATA24	25	DATA24
26	24V DC VCC	26	DATA25	26	DATA25
27	24V DC VCC	27	DATA26	27	DATA26
28	24V DC VCC	28	DATA27	28	DATA27
29	24V DC VCC	29	DATA28	29	DATA28
30	24V DC VCC	30	DATA29	30	DATA29
31	24V DC VCC	31	DATA30	31	DATA30
32	24V DC VCC	32	DATA31	32	DATA31
33	24V DC VCC	33	DATA32	33	DATA32
34	24V DC VCC	34	DATA33	34	DATA33
35	24V DC VCC	35	DATA34	35	DATA34
36	24V DC VCC	36	DATA35	36	DATA35
37	24V DC VCC	37	DATA36	37	DATA36
38	24V DC VCC	38	DATA37	38	DATA37
39	24V DC VCC	39	DATA38	39	DATA38
40	24V DC VCC	40	DATA39	40	DATA39
41	24V DC VCC	41	DATA40	41	DATA40
42	24V DC VCC	42	DATA41	42	DATA41
43	24V DC VCC	43	DATA42	43	DATA42
44	24V DC VCC	44	DATA43	44	DATA43
45	24V DC VCC	45	DATA44	45	DATA44
46	24V DC VCC	46	DATA45	46	DATA45
47	24V DC VCC	47	DATA46	47	DATA46
48	24V DC VCC	48	DATA47	48	DATA47
49	24V DC VCC	49	DATA48	49	DATA48
50	24V DC VCC	50	DATA49	50	DATA49
51	24V DC VCC	51	DATA50	51	DATA50
52	24V DC VCC	52	DATA51	52	DATA51
53	24V DC VCC	53	DATA52	53	DATA52
54	24V DC VCC	54	DATA53	54	DATA53
55	24V DC VCC	55	DATA54	55	DATA54
56	24V DC VCC	56	DATA55	56	DATA55
57	24V DC VCC	57	DATA56	57	DATA56
58	24V DC VCC	58	DATA57	58	DATA57
59	24V DC VCC	59	DATA58	59	DATA58
60	24V DC VCC	60	DATA59	60	DATA59
61	24V DC VCC	61	DATA60	61	DATA60
62	24V DC VCC	62	DATA61	62	DATA61
63	24V DC VCC	63	DATA62	63	DATA62
64	24V DC VCC	64	DATA63	64	DATA63
65	24V DC VCC	65	DATA64	65	DATA64
66	24V DC VCC	66	DATA65	66	DATA65
67	24V DC VCC	67	DATA66	67	DATA66
68	24V DC VCC	68	DATA67	68	DATA67
69	24V DC VCC	69	DATA68	69	DATA68
70	24V DC VCC	70	DATA69	70	DATA69
71	24V DC VCC	71	DATA70	71	DATA70
72	24V DC VCC	72	DATA71	72	DATA71
73	24V DC VCC	73	DATA72	73	DATA72
74	24V DC VCC	74	DATA73	74	DATA73
75	24V DC VCC	75	DATA74	75	DATA74
76	24V DC VCC	76	DATA75	76	DATA75
77	24V DC VCC	77	DATA76	77	DATA76
78	24V DC VCC	78	DATA77	78	DATA77
79	24V DC VCC	79	DATA78	79	DATA78
80	24V DC VCC	80	DATA79	80	DATA79
81	24V DC VCC	81	DATA80	81	DATA80
82	24V DC VCC	82	DATA81	82	DATA81
83	24V DC VCC	83	DATA82	83	DATA82
84	24V DC VCC	84	DATA83	84	DATA83
85	24V DC VCC	85	DATA84	85	DATA84
86	24V DC VCC	86	DATA85	86	DATA85
87	24V DC VCC	87	DATA86	87	DATA86
88	24V DC VCC	88	DATA87	88	DATA87
89	24V DC VCC	89	DATA88	89	DATA88
90	24V DC VCC	90	DATA89	90	DATA89
91	24V DC VCC	91	DATA90	91	DATA90
92	24V DC VCC	92	DATA91	92	DATA91
93	24V DC VCC	93	DATA92	93	DATA92
94	24V DC VCC	94	DATA93	94	DATA93
95	24V DC VCC	95	DATA94	95	DATA94
96	24V DC VCC	96	DATA95	96	DATA95
97	24V DC VCC	97	DATA96	97	DATA96
98	24V DC VCC	98	DATA97	98	DATA97
99	24V DC VCC	99	DATA98	99	DATA98
100	24V DC VCC	100	DATA99	100	DATA99

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