PTAC2

PROGRAMMABLE TACTICAL AWARENESS CONTROLLER

Highly ruggedized display offering ASCII or HEX code (via RS-232 or RS-422) protocol for control of external systems and/or internal display features through programmable bezel soft keys. Multiple video and computer inputs (DVI-I, RS-170, VGA) and multiple mounting options allow for seamless integration within any rugged system.

* Cables not included

STANDARD FEATURES

- (20) Tactile Programmable Buttons
  - Internal and/ or External Use
- (4) RS-170 Inputs, PIP Capable
- (1) RS-170 Output
- (2) DVI-I/VGA Inputs
- SVGA Resolution (800x600)
- Auto Sensing NTSC/PAL
- MIL-C Power*
- LED Backlight (Extreme 3000:1 Dimming Ratio)
- Anti-Reflective and Anti-Glare Treatments
- Enhanced Sunlight Readability
- IP67/NEMA 6 Enclosure
- 8.4”, 10.4”, 12.1” and 15.0” TFT AM LCD
- MIL-STD-461, 704, 810, 1275 Compliant

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 Class B White Compliant
- Night Vision Compatible – Monochrome Red/Green
- Remote Backlight Control (via Serial Command)

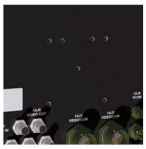
MOUNT OPTIONS *(Quoted individually)*

Front Mount

Panel Mount

RAM Mount

Side Mount



VESA Mount

LCD Size	Resolution	Nits	Viewing Angle	Contrast Ratio	Maximum Power Consumption
8.4" TFT AM LCD	SVGA (800x600)	800 nits	160° (H) x 160° (V)	900:1	30 Watts
8.4" TFT AM LCD (Optional)	XGA (1024x768)	500 nits	160° (H) x 140° (V)	600:1	30 Watts
10.4" TFT AM LCD	SVGA (800x600)	800 nits	160° (H) x 160° (V)	900:1	30 Watts
10.4" TFT AM LCD (Optional)	XGA (1024x768)	1,000 nits	160° (H) x 130° (V)	700:1	30 Watts
12.1" TFT AM LCD	SVGA (800x600)	550 nits	160° (H) x 140° (V)	600:1	30 Watts
12.1" TFT AM LCD (Optional)	XGA (1024x768)	1,000 nits	160° (H) x 140° (V)	600:1	30 Watts
15.0" TFT AM LCD	XGA (1024x768)	800 nits	160° (H) x 140° (V)	800:1	40 Watts

Technical Specifications	
Display	8-bit color, 16,777,216 colors
Dimming Ratio	3000:1
Video Inputs	(4) RS-170, (2) DVI-I/VGA
Video Outputs	(1) RS-170
Housing	Milled AL, Black Hard Anodized
Mount Options	(Quoted individually.) Panel, RAM, 75mm VESA Mount, Side Mount (12.1”-15.0” 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

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-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

ON-GOING PRODUCT DEVELOPMENT MAY NECESSITATE DESIGN AND SPECIFICATION CHANGES WITHOUT NOTICE.

DIGITAL SYSTEMS ENGINEERING, INC. (DSE)
17491 NORTH 93RD STREET
SCOTTSDALE, AZ 85255-6324 | 480-515-1110 | WWW.DIGITALSYS.COM
technology in motion