

PM10XG

Rugged 10.4" Panel Mount Display

The PM10XG is a highly rugged panel (flange) mount 10.4" display designed for military aviation, navy and army vehicles. Rugged to survive severe environments, it will not be affected by heat, sand, dust, water spillage or shock. Designed around a 10.4" XGA (sunlight enhanced optional) LCD, this rugged display is proposed in various configurations to address all field applications.

KEY POINTS

- Rugged durable packaging MIL standard compliant
- Touch sensor (resistive, PCAP, IR)
- IP65 on front bezel with EMI interface
- Configurable to address various video input requirements
- Connectors type and location configurable
- Cold start with embedded heaters

OPTIONS

- Bezel function keys
- Mating cables
- MIL 38999 connectors
- Vehicle mount
- Connector location and pinout allocation
- Color
- Health monitoring control



The PM10XG rugged display is proposed with various configurations of Man Machine Interfaces. Lateral function keys with custom marking are proposed as an option, either interfaced to an embedded encoding board or accessible as contact switches through the connector panel.

CONFIGURATIONS

Power supply: 8-16 VDC, 18-36 VDC, 12-36VDC, 115VAC,

Video Interfaces: DVI, VGA, Display Port, HD-SDI...

LCD: High bright, NVIS (MIL STD 3009), dimming to zero

Communications: Serial port for remote control

OS: Windows, Linux compatible

Touch sensor: Resistive 5 wires, IR, PCAP

Environment: EMI to MIL STD 461, Extended temperature, shock and vibration to MIL STD 810, IP ratings up to IP65,

Consult MILCOTS to establish a specific configuration



PM10XG Rugged Display

The PM10XG rugged display is designed around building blocks and can be proposed in a variety of configurations. The configuration below is an example of the suggested solutions:

TECHNICAL SPECIFICATIONS	
Video Input	DVI, VGA, Composite, S-Video
Display	10.4" TFT Active Matrix Panel, LED backlight
Max Resolution	1024x768 (XGA) 16M Colors
Luminance	500 Cd/m2 sunlight readable / enhanced TFT
Touch Panel	5 wire resistive armored touch sensor
MMI	Set of user's function keys: ON/OFF, dimming, NVIS, blackout
Connectors	MIL 38999 for Power, video and remote control
Dimensions	11.02" (W) x 9.25" (H) x 2.43" (T) 280mm (W) x 235mm (H) x 61mm (T)
Weight	5.5 lbs (2.5 kg)
Power	[18-36 VDC] Universal AC 100V-240V, 50-60Hz input; 19V, 3.4A output
Health Monitoring	Embedded health monitoring board with temperature control (x2), voltage control (x2), elapsed time (x3), programmable . RS 422 interface

ENVIRONMENTAL PERFORMANCE	
Operating Temp.	-40 °C to 55 °C
Storage Temp.	-40 °C to +75 °C
Humidity	95 % @ 40 deg C
Altitude	0 to 45000 feet
Shock	40g / 15 ms , half sine MIL S 901D
Vibration	operating vibration 3G RMS 5 to 2000 Hz
Ingress Protection	IP65
EMC	MIL-STD-1275B, MIL-STD-461

