



Systems & Projects

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GMFCD—104

10.4" Display for Ground Applications



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The GMFCD-104 is a flexible, rugged low power consumption display for a Ruggedized ground applications.

The display provides high brightness and panel with illuminated pushbuttons.

The display complies with the requirements of MIL-STD-810F extended temperatures, MIL-STD-461E, MIL-STD-1275B among others.

The Display support several video inputs, and can be customized to support RS-170A PAL/NTSC, VGA, DVI and more. In addition, RS170A video output can be provide for video monitoring or recording.

The display can be customized to customer's requirements and can be provided with different types of interfaces such as discretes, analog and digital communication interfaces, including MIL-STD-1553.

The display panel can be fully customized to specific requirements, including optional Protected switches and more.



Growth potential

- ◆ Smart display - Optional CPU processor with real time RTOS for Applications support.
- ◆ On Screen Display - Overlay of characters and graphics on the input video with full flexibility of OSD locations and languages
- ◆ Control protected switches
- ◆ Touch screen

GMFCD-104 Operational Features

- ◆ The user interface is software based, thus allowing maximum flexibility
- ◆ The GMFCD-104 ICD contains:
 - RS-422 and CAN-BUS serial communications
 - Ethernet switch
 - I/O Discretes
 - RS-170 Video

GMFCD-104 Environment and EMI/RFI Features

- ◆ Environment — According to MIL-STD-810F
- ◆ EMI/RFI— According to MIL-STD-461E
- ◆ Power Characteristics— MIL-STD-1275B

About Niron Systems & Projects

Niron Systems & Projects is a recognized provider of sophisticated technological solutions for defense and Homeland Security applications.

With many years of accumulated experience backing a strong command of the most advanced modern technologies, company engineers specialize in the development and production of integrated solutions for a variety of manned and unmanned airborne, ground and surface naval platforms. These include control systems for weapon delivery and chaff & flare Dispensing Systems: mission and communication computers: display and switching units; hardware and software solutions for real-time systems.

The company also provides unique turnkey project management and ongoing customer support services for non-standard technological programs requiring close professional accompaniment .

Niron Systems & Projects is certified to:
ISO 9001:2008 and ISO90003:2004

Characteristic	Performance
Display area (mm)	210.4.0 (H) x 157.8 (V) (10.4" diagonal)
Number of Dots (Resolution)	XGA 1024 x 768 native
Brightness	1000 (cd/m2)
Number of Color	16.7M
Viewing Envelope	-80° to 80° Horizontal, -65° to 65° Vertical
Contrast Ratio	700:1
Backlight	LED
Display Panel	Multi layer Anti reflective
Video Inputs	4 x RS-170A PAL/NTSC
Video Output	1 x RS170A PAL/NTSC
Bezel	15 Illuminated Push buttons. Other configurations are available
Interfaces	4xRS-422, 1xRS-232, Optional - I/O Discrettes, MIL-STD-1553, LAN, CAN Bus, Additional serial communication
Electrical Input	28V per MIL-STD-1275B
Environmental (MIL-STD-810F)	<ul style="list-style-type: none"> ◆ Operating Temperature: - 30°C to + 65°C. Optional: Extended temperature ◆ Non-operating Temperature: - 40°C to + 71°C ◆ Humidity: 95% @ +35°C ◆ Mechanical shock (operation): 40g for duration of 11±1ms ◆ Explosive atmosphere ◆ Random vibrations ◆ Sand and Dust, Salt Atmosphere, Fungus ◆ Rain: Water jets
EMI/RFI (MIL-STD-461E)	<ul style="list-style-type: none"> ◆ CE102, CS114 ◆ RE102, RS103
Reliability (prediction)	5,000 hours at 35°C
Dimension	13.2" X 10" X 3.3" (L x W X H inches).
Weight	12lb.

AN: 2004771

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