

# GD6010

## Rugged Vehicle Display



### Rugged 10" Vehicle Display and Processor

The GD6010 is a lightweight rugged smart display capable of hosting C4 applications for tactical and combat vehicles.

It combines mission-critical display, processing and vehicle interfaces within a size, weight, power and cost-effective package.

Its wide range of open-standard inputs allows seamless integration with combat vehicles.

It is qualified for operations in the most demanding environments including the US JLTV.

#### Features:

- 10.4" Sunlight-readable Touchscreen Display.
- Quad Core Atom™ Intel® processor for mission-critical ground-combat applications.
- CANbus vehicle interface.
- Camera video input, switching and capture.
- Expansion provisions enable platform customization.
- TRL9 mass production for US Army JLTV platform.
- Sustained > 10 year life cycle.

# Technical Information

## Processor

Graphics	Intel®HD Graphics
CPU	Intel® Quad Core™ Atom E3845 Intel® Quad Core™ Atom x7-E3950
Memory	4GB-8GB SDRAM
Storage	Embedded SSD/AES-256 SED: 8GB-256GB
Info. Assurance	Secure UEFI BIOS and TPM2.0

## Interface(s)

CANBus	2J1939 or MilCAN
Ethernet	2 Gigabit Network Interface Controllers (NIC)
USB	2 USB 2.0
Serial	2 RS232
Audio	Intel HD I/O
GPIO	4 contact closure, logic level or 28V sense

## Optical Characteristics

Resolution	1024 x 768 (XGA)
Size	10.4"
Contrast Ratio	>460:1
Brightness	>850 cd/m <sup>2</sup>
Dimming Range	<0.15 to >850 cd/ m <sup>2</sup>
Viewing Angle	+/-60° H, ± 55° V
Touch Screen	Resistive
Bezel	28 backlit buttons DEF STAN 23-009 GVA or customized button legends
Night Vision	Compatible

## Embedded Expansion

Video I/O	DVI/ HD-SDI
Navigation	GPS
Cellular Modem	GSM/LTE
WiFi	802.11

## Physical Characteristics

Size (w x h x d)	286 x 235 x 74 mm (11.25" x 9.26" x 2.90")
Weight	4 kg (9 lbs)
Connectors	MIL-DTL-38999

## Video

Video Inputs	5 RS170A analog composite (NTSC/PAL)
--------------	--------------------------------------

## Environmental Specifications

Vibration	MIL-STD-810G Method 514.6, Procedure I » Category 4 Composite Wheeled vehicles » Category 20 Tracked vehicles
Operational Shock	MIL-STD-810G Method 516.6, Procedure I
Crash Hazard Shock	Method 516.6, Procedure V
Bench Handling Shock	Method 516.6, Procedure VI
Immersion	MIL-STD-810G Method 512.5, Procedure I
Altitude	MIL-STD-810G Method 500.5, Procedures I & II
Humidity	MIL-STD-810G Method 507.5 Procedures II, Aggravated
Sand and Dust	MIL-STD-810G, Method 510.5, Procedures I & II
Salt Fog	MIL-STD-810G, Method 509.5
EMI/EMC	MIL-STD-461F
CBRN	FM 3-11 hardened
Touchscreen	Wrench and Bootkick impact toughened

The smart display described here represents a general configuration of this family of products. Specifications are configurable for specific customer requirements. For pricing and availability interfaces, bezel buttons, casings, connectors and other information, please contact your General Dynamics representative.