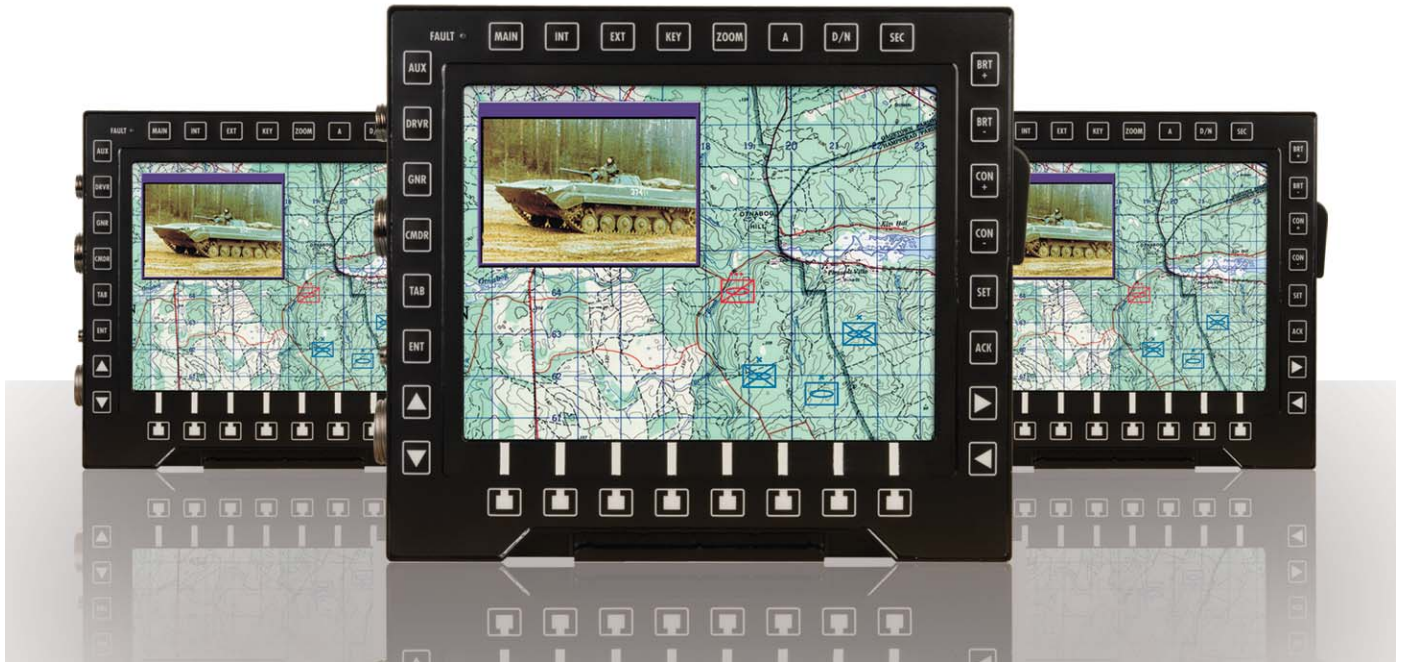


SD7110



Smart Display Unit

Intel® Core™2 Duo

PCI-Express

LED Backlit XGA Display

Touch Screen

Optional PCI Express Graphics

MIL-STD-810F

Designed specifically for on-the-move operation in tactical and armored fighting vehicles, the LED backlit display provides full sunlight viewability, along with an extremely wide dimming range. A MIL-STD-1275A power supply allows the SDU to be connected directly to vehicle power and operate over wide range of input in power (12 VDC to 36 VDC). The Intel® Core™ 2 Duo processor and PCI-Express graphics capability make the smart display a very versatile system with significant upside growth potential.

Features

- 10.4" Sunlight viewable active matrix flat panel XGA display, ruggedized for severe applications
- Upgradeable Intel® Core™ 2 Duo processor
- Designed for full operation over extended temperature range (-46°C to +71°C)
- Multiple soldier-machine interface options: Touch Screen, USB, Bezel Keys
- MIL-STD-1553 and CANBus interfaces
- 4x NTSC/RS170 video inputs, 1x RS170 Output
- 1x VGA input, 1x VGA Output
- Optional PCIe x16 Graphics Controller

The smart display described here represents a typical configuration of this family of products. Specifications may be configurable for specific customer requirements. For specifics on interfaces, bezel buttons, casings, connectors and other configurable items, please contact your GD Canada representative.

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Technical Information

Processor Unit

CPU	Upgradable Intel® Core2™ Duo, 1.5 GHz
Memory	2 GB DDR2 (4 GB Future)
Video Controller	16 lane PCI Express Graphics Controller (e.g. ATI Radeon HD2400 or NVIDIA 8600M GT)
Video Memory	Up to 512 MB of dedicated GDDR2/G-DDR3
Hard Disk	Removable Solid State SATA, (32 GB or larger) Optional Compact Flash Site
Keyboard	USB External
Serial ports	3 x RS-232 RS-422 up to 4x RS-422
Audio	Audio Out: HD Audio (2ch) Microphone or Line Input
PCMCIA	Compatible with Type I or Type II Optional Door for removal
USB	2x USB 2.0 Ports (UHCI and EHCI) USB floppy, CD-ROM, Hard Drive and Memory Stick boot supported
Ethernet	2 x 10/100/1000 MB Ethernet
CANBus (Dual Optional)	ISO 11898-compliant CAN interface allows datatransfer rates up to 1 Mbit/s
1553 (Optional)	Single channel dual redundant MIL-STD-1553 interface
OS support	Microsoft Windows, Linux, VxWorks,
Power supply	MIL-STD-1275A/B 6V Initial Surge, 16V cranking Reverse polarity protection

Video

Video Inputs	4 NTSC/RS170 video inputs, 1 VGA video input
Video Output	VGA Output with resolutions up to 2048 x 1536 @ 75Hz
Processing	Dedicated video processor allows input channels to be displayed with and without processor unit installed
Video Capture	Digitize and compress (MPEG4 / MJPEG) RS-170 feeds for storage or network distribution

Environmental Conditions

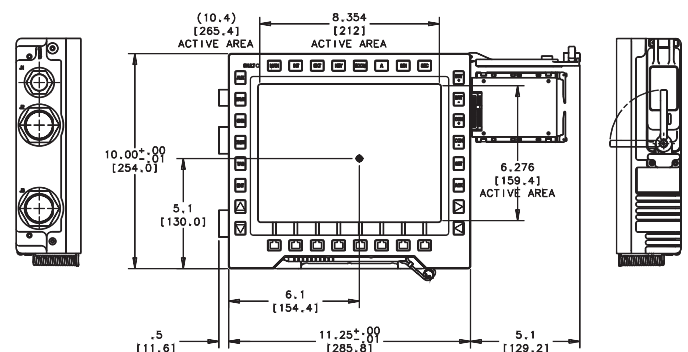
Operating Temp	-46°C to +71°C
Storage Temp	-46°C to +85°C
Vibration	MIL-STD-810F Tracked/Wheeled Vehicles
Shock	40g 6msec 1/2 sine
Water Tightness	50 PSIG
Altitude	15000 ft
Humidity	3% to 100% condensing
Sand Dust	20 mph for 30 min
Explosive Atmosphere	Yes
Salt-Fog	48 hrs
EMI/EMC	MIL-STD-461E

Display

Resolution	1024 x 768 (XGA)
Size	10.4 inch
Contrast Ratio	1200:1 (Typ.)
Brightness	>150fL
Dimming Range	<1.0fL to > 150fL
Viewing Angle	>80 Degrees in all axis Up/Down/Left/Right
Touchscreen	Optional Resistive (low reflectance) with scratch and shatter resistant layer
Bezel	33 backlit keys including 4 directional keys. Additional key configuration available

Physical Characteristics

Size	11.25" w X 10.0" h X 3.0" d
Weight	15.0 lbs max.
Connectors	Sealed



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