

550MDI Media Display Interface

The 550MDI (Media Display Interface) is a CAN based 4.3" 262K color 480 x 272 TFT High Brightness LCD with touchscreen. The 550MDI supports dual independent CAN transceivers and a LIN transceiver for providing a gateway between multiple in-vehicle networks.

Screens are designed using an intuitive GUI builder (CAN Create) capable of implementing dynamic customer interfaces.

The 550MDI is housed in a custom molded enclosure that allows for a minimum dash profile of 0.75 inches and various mounting options.

The housing contains two molded in Deutsch DT style polarized connectors for enhanced sealing and reliability.



features

- 2 CAN ports
- 1 LIN port
- 1 USB port
- 1 CVBS Video input (NTSC/PAL)
- 1.5W Speaker with 22khz playback for pre-recorded audio alerts
- Up to 4GB Micro SD Card for graphical and audio assets plus data logging
- 1 analog input 0-5VDC (can be used as back-light dimmer)
- Onboard temperature sensor
- RTC with battery backup
- 2 molded in 8 position DT Deutsch connectors
- Resistive Touch Screen
- Utilizes CANcreate GUI design authoring tool
- Optional Orbital Mount

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The 550MDI includes up to 4 GB of available memory stored on an internal micro SD card. With an optional USB cable all data stored on the card can be accessed through a PC as a mass storage device. Since all program application data, GUI components, and data logs are contained on the SD card this allows immediate field upgrades of critical software components simply by transferring new files to the card. The available memory and file OS can support thousands of pages of information and brand new to the 550MDI is the ability to playback audio events.

Also included is the ability to select a composite video source to display on the screen. The video source can be NTSC or PAL and will scale to the screen size. Touch and system functions will still be active while video is actively displayed so that the user can quickly return to any control or monitoring activity after checking the video feed.

With the convergence of images, audio and video unleashed by the CAN Create GUI utility the 550MDI is capable of providing a complete user interface experience.

design specification

- Shock: Mil Std 202G method 213B Test Condition C
- Vibration: Mil Std 202G method 204D Test Condition B
- Ingress Protection: IP66 (100kPA water pressure at 3 meters for 3 minutes from all directions)
- PCB characteristics : UL94V-0
- Salt spray: ASTM B117
- EMI Testing: 2004/104/EC (or SAE J1113 equivalent)
 - Section 6.5 Broadband Radiated Emissions
 - Section 6.6 Narrowband Radiated Emissions
 - Section 6.7 Immunity to Electromagnetic Radiation
 - Section 6.8 Immunity to Transient along supply lines
 - Section 6.9 Conducted Transient Emissions

electrical specifications

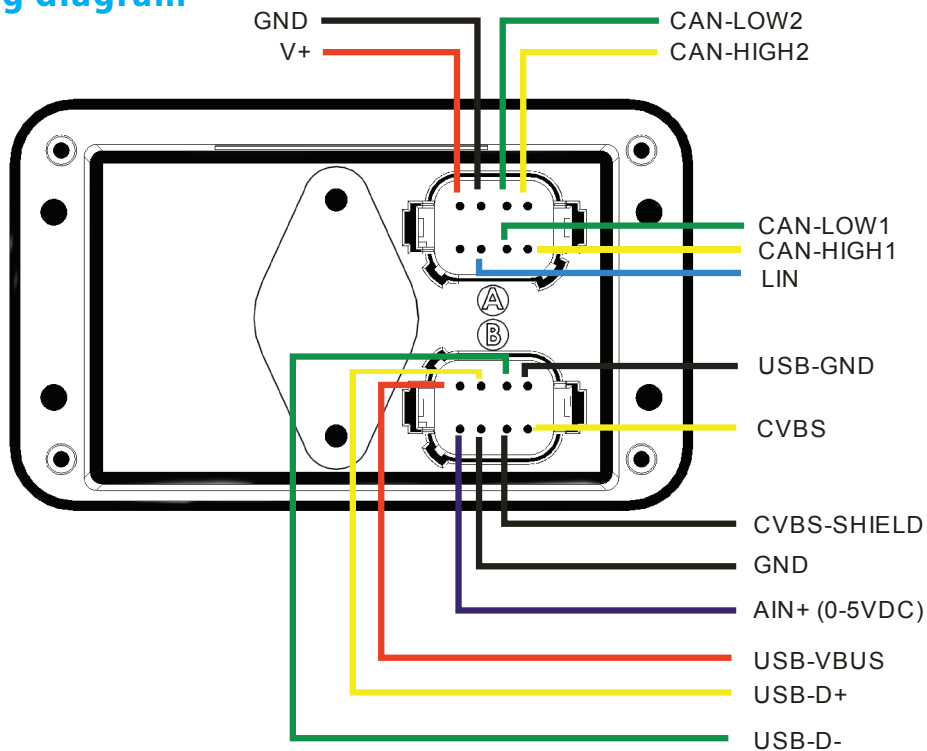
description	minimum	nominal	maximum
Operating Voltage	9 VDC	12 / 24 VDC	48 VDC*
Operating Current	-	250 mA @ 12VDC	-

* 5 minute duration for 24V jump start condition

physical specifications

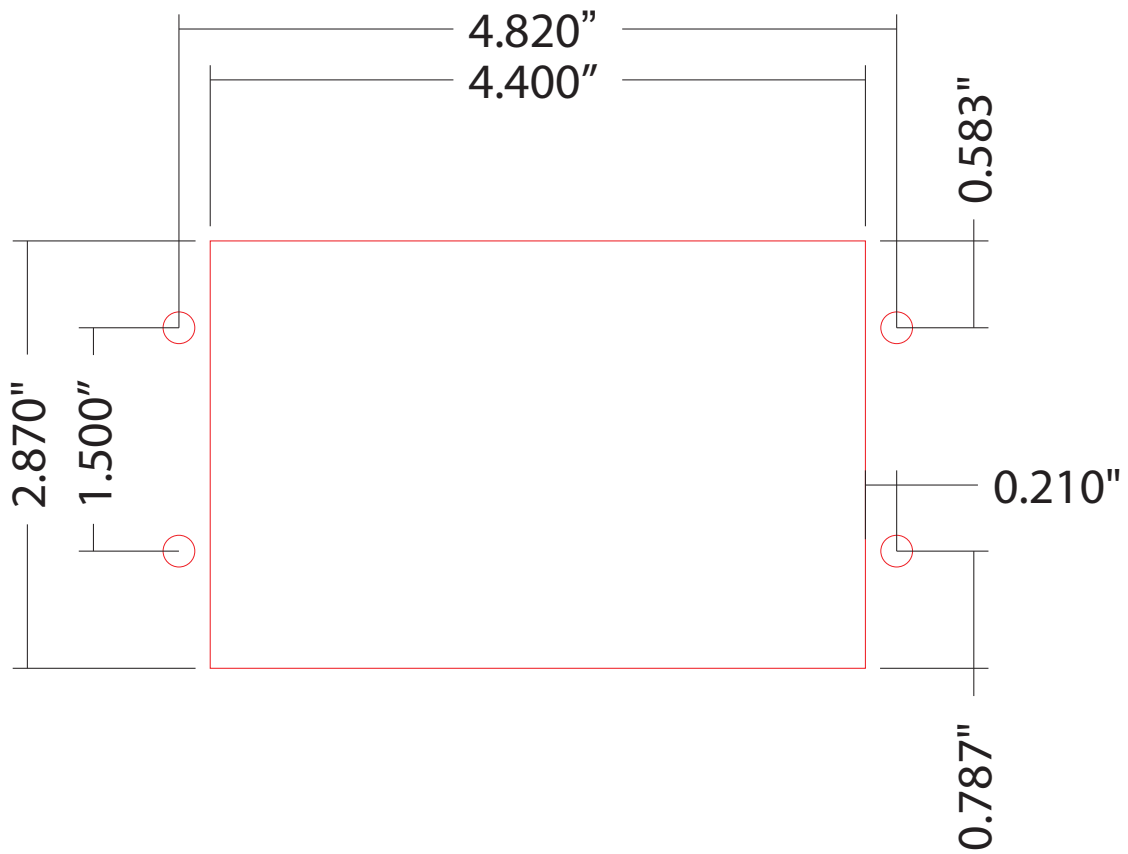
description	specification
Front Bezel	UL 94 V-0 rated Polycarbonate
Back Cover	UL 94 V-0 rated Polycarbonate
Operating Temperature	-30°C to 70°C
Storage Temperature	-30°C to 80°C
Operating Humidity	Up to 95% condensing
Weight	250 grams
Display brightness	1000 cd/m2 typ.
Contrast Ratio	350:1 typ.
Viewing Angle	-65/60 vertical -70/70 horizontal
LED Backlight Life	> 20,000 hours

wiring diagram



Mating Connector P/N: DT06-08SA & DT06-08SB
 Female Contact Size: 16
 Current Rating: 13A
 Wire sizes: 14-20 AWG

mounting dimensions



4 mounting holes #8-32 screws