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# PRD10810 – MONITOR TFT 15.6” JPT 24V FIT LC (FNI - EVOI) DATASHEET

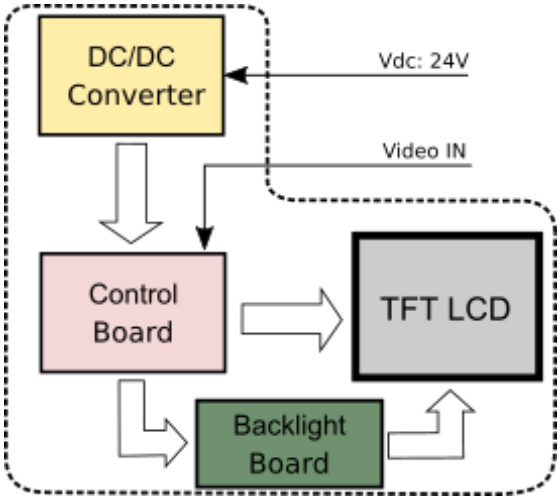
## DESCRIPTION

The 15.6” monitor has the most advanced technology when it comes to image, it being composed of the amorphous silicon thin film transistor liquid crystal display (a-Si TFT LCD) panel structure with driver Large-scale integration (LSI) for driving the TFT array and the LED backlight. It was specifically designed, qualified and supported for use in automotive applications. The display supports the 1366 (H) x 768 (V) screen format and 262k colors (6-bit RGB data input). Its high resolution and wide viewing angle, allied with LED backlight cutting edge technology are differentials in this product.

## FEATURES

- 15.6” High resolution active matrix LCD;
- LED backlight system;
- Grey case;
- Full HD resolution (1366 x 768);
- Wide viewing angle;
- 6-bit of support color (262k colors RGB);
- Auto ON/OFF in presence/absence of video signal;
- Protective glass;
- Overcurrent and overvoltage protection;
- Inverted power supply protection;
- Compact and innovative design;
- Easy to install on every automotive video
- system.

## BLOCK DIAGRAM



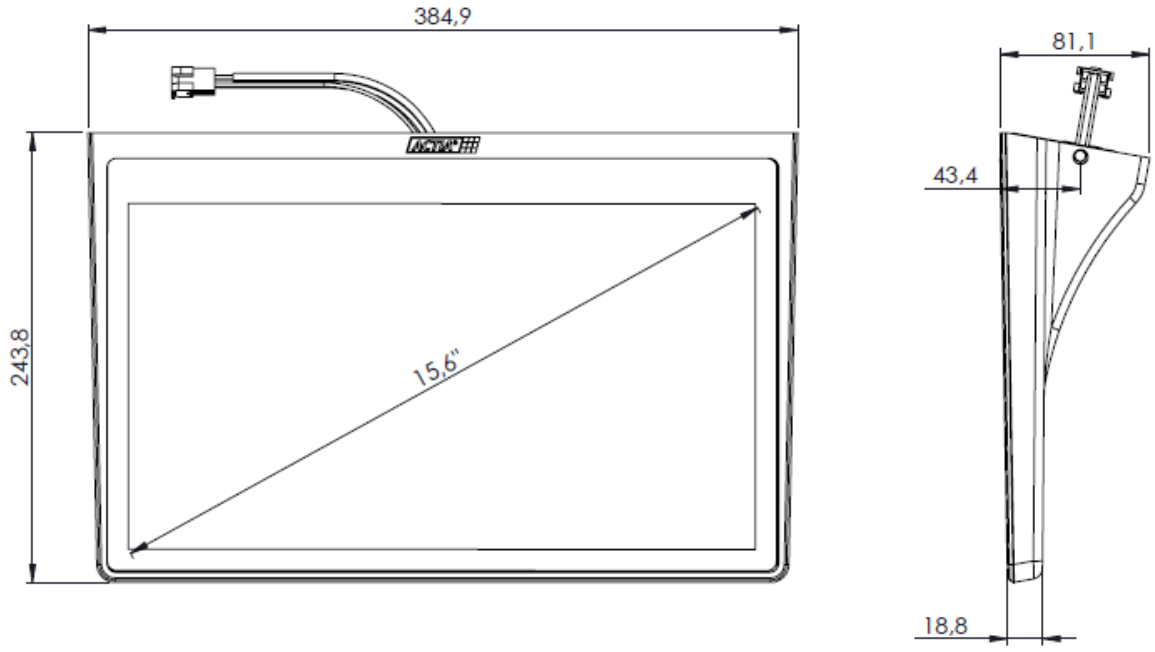
## TECHNICAL DATA

| PARAMETER | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|
| **Supply voltage range** | 18 | 24 | 32 | Vdc |
| **Power consumption (operation)** | - | 6.5 | 6.7 | W |
| **Power consumption (standby)** | - | 3.6 | 3.8 | W |
| **Current Consumption (standby)** | - | 150 | - | mA |
| **Current Consumption (operation)** | 210 | 270 | 370 | mA |
| **Luminance** | - | 220 | - | cd/m² |
| **Contrast Ratio** | - | 500 | - | - |
| **Viewing angle CR=10 (horizontal)** | | ±45 | - | º |
| **Viewing angle CR=10 (vertical)** | -20 | - | +40 | º |
| **Operating temperature range** | 0 | - | 50 | ºC |
| **Storage temperature range** | -20 | - | 60 | ºC |
| **Life Time** | 15000 | | | - |
| **Degree of protection** | IP20 | | | - |
| **Video System** | PAL / NSTC | | | - |
| **Video Input signal** | CVBS / 1.0Vpp @ 75ohm | | | - |
| **Aspect Ratio** | 16:9 | | | - |
| **Screen resolution** | 1366 x 768 | | | pixels |
| **Pixel Pitch** | 252 x 252 | | | µm |
| **Number of colors** | 262k colors (RGB 6-bit) | | | - |
| **Weight** | 2.8 | | | Kg |

| RELIABILITY TESTS | |
|---|---|
| **Thermal Shock** | ANSI/ASAE EP455 - 5.1.3<br>-40°C to 70°C at rate of 4°C/min. (1 hour each extremes). |
| **Salt Spray** | SAEJ1455 – 4.3 (ASTM B117). 48 hours of application. |
| **Vibration, Random** | SAE J1455 – 9.4.4.2 8 hours each axis @ 50°C (5Hz to 600Hz). |
| **Shock/Crash safety** | ANSI/ASAE EP455 – 5.14.1<br>A single 11ms half sine pulse of 490m/s^2 on the function axe. |
| **Overvoltage** | 36V for 60min. |
| **Reverse Voltage** | ANSI/ASAE EP455 – 5.10.4 |
| **Short circuit protection** | All inputs to Vdc, Ground and case for 60s. |
| **Starting Profile** | ISO16750- 2– 4.6.3 |
| **Load Dump** | ISO16750-2– 4.6.4<br>160V (+-10%), tr=0,1ms, td=100ms, Ua=28V. |

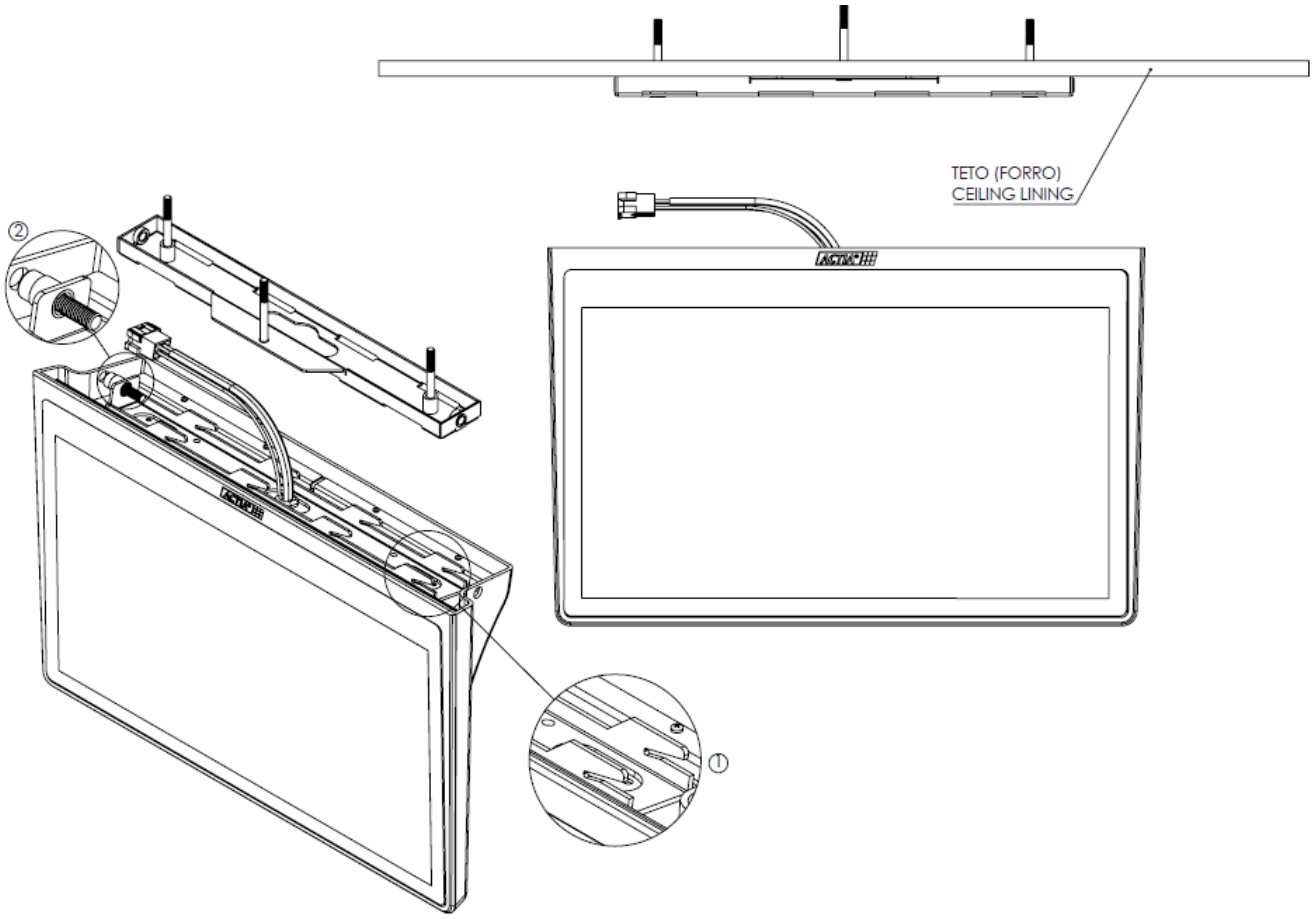
| | |
|---|---|
| **Switching spikes - Transients** | ISO7637-2<br>Pulse 1, 2a, 2b, 3a and 3b. |
| **Superimposed alternating voltage** | ISO16750-2– 4.4 - Severity 1, 2 and 3. |
| **Discontinuities in supply voltage** | ISO16750-2– 4.6<br>Usmin with 100ms drop. |

## DIMENSIONS
(In millimeters)




## CONNECTOR DETAILS
(JPT connector)

## ACCESSORIES




1 – Fixation by serrated metal bracket;
2 – System fixed by Allen screw;
3 – Possibility of rotating serrated metal support (1) fixing reversing position.

## REVISION HISTORY

| *Revision* | *Date* | *Reviewer* | *Description* |
|---|---|---|---|
| 00 | 08/28/2019 | C.Dambroz | Document creation. |