

TERA-6 DISPLAY

Tera Display Line is a multifunctional display for all mobile applications using CAN-Bus Interface. Based on ARM™ architecture and Linux Operating System, it represents the ideal solution for high-end Man-Machine-Interface. Tera-6 is available with 6,5" VGA display, and built in 10 keys soft touch keyboard.

All screens can be personalized using easy to use visualization tools. Its wide memory capabilities and fast processing power can manage a multitude of pages, like powertrain control, diesel engines, transmissions, load limiting or weighing systems, different levels of black box and operative data loggers, and so on.

An optional external video camera input is available for picture in picture screen, managed by software (automatic rear camera during reverse travelling, for example)



TECHNICAL DATA

CONTROL SYSTEM:

- Microprocessor 32bit, 400 MHz
- RAM memory 128 Mb DDR
- Flash memory 128 Mb
- Flash memory 4 Mb for Bootloader
- Internal Watchdog
- Real Time Clock
- Internal Buzzer

CONNECTIVITY:

- 2 CAN BUS, CAN 2.0B (11 or 29 bit), ISO 11898-2 compliance, speed up to 1 Mbit/s
- 4 serial ports standard RS232 with FIFO, 16C550 compatible
- Built-In Keyboard (10 context-dependent keys, F1-F10, custom symbols on request)
- 1 USB ports
- 1 Ethernet port 10/100 Mbps
- 1 Internal SD card port
- Input Video PAL/NTSC

ELECTRICAL CHARACTERISTICS:

- Power Supply: 9 ÷ 30 Vdc (Operates with vehicle power supply directly)
- Current Consumption: 1,5 A @ 12V (protection through external fuse)

DISPLAY CONFIGURATION:

- Display: Active matrix colour TFT, standard VGA, 262.144 colours
- Resolution: 640 x 480 pixels, dot pitch 0.204 mm
- Display Area: 130,56 x 97,92 mm. (6"5)
- Contrast Ratio: 250:1
- Luminance: 350 candles/cm2
- Viewing Angle: horizontal 70°
vertical up side 40° - vertical down side 70°
- Backlight: Double cold cathode fluorescent lamp

CERTIFICATIONS:

The TERA 6 unit (all models) is conformed to the following directives and standards required by 89/336 CE, according to automotive standards:

- 1) EMC generic standards for emission, heavy industrial environment :
 - Reference standard: EN 61000-6-4
 - Base standard: EN 55011 (Radiated RF emissions)
- 2) Electromagnetic immunity in heavy industrial environment:
 - Reference standard: EN 61000-6-2
 - Base standard: EN 61000-4-2 (Electrostatic Discharge)
 - EN 61000-4-4 (Fast transient "Burst")
 - EN 61000-4-6 (Conducted RF immunity)
 - EN 61000-4-3 (Radiated RF immunity)

OPTIONALS:

- Internal SD for data recorded (e.g. Black Box)

MECHANICAL CHARACTERISTICS AND RATINGS:

- Operating Temperature Range: from -20°C to +70°C (from -4°F to +158°F)
- Storage Temperature Range: from -35°C to +85°C (from -31°F to +185°F)

On dash or Out dash version

- Housing: PA6
- Protection: IP65
- Housing Dimension: 244 x 164 x 79,5 mm
- Six hole on housing for On dash installation or Support Bracket for Out dash

Connectors:

- 1 six poles connector Female for power supply and 1st Serial Interface COM1 (RS232)
- 2 four poles connectors Male for CAN-BUS
- 1 four poles connector Female for USB
- 1 fifteen poles connector Female Sub-D HD for 2nd Serial Interface COM2 (RS232), Ethernet and Video Input

MECHANICAL DIMENSIONS: