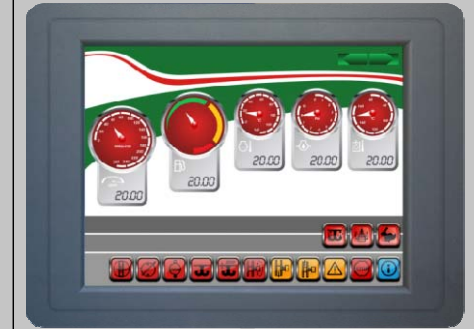


TERA8 is a monitor with a SVGA (800x600) 8.4" display with LED technology and 32 bit ARM™ processor. It is equipped with a waterproof Glass-on-Glass scratchproof touchscreen. It has been designed to meet the harsh environment requests of any mobile machines using a CAN BUS network. Based on Linux OS, TERA8 is the ideal HMI solution for any HI-END application. It manages also low power stand-by mode. It is provided with two PAL/NTSC video camera input, USB port, Ethernet, and an additional USB and SD slot accessible from the case. TERA8 is fully programmable using VT3 software development tool, COBO proprietary IDE, that combines intuitive WYSIWYG graphic programming with IEC61131 standard. TERA8 can be installed both in-dash or out-dash with its specific articulated support.



TECHNICAL DATA

CONTROL SYSTEM:

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

INTERFACES:

- 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
- Touch screen user interface
- 1 USB port on main connector + 1 USB port available directly to side of panel
- 1 Ethernet port 10/100 Mbps
- 1 SD card port available directly to side of panel
- Input Video PAL/NTSC

ELECTRICAL CHARACTERISTICS:

- Power Supply: 9 ± 30 Vdc (Operates with vehicle power supply directly)
- Current Consumption: TBD

DISPLAY CONFIGURATION:

- Display: Active matrix colour TFT, standard SVGA, 262K colours (up to 16.2M)
- Resolution: 800 x 600 pixels, dot pitch 0.213 mm
- Display Area: 170.4 x 127.8 (8.4")
- Contrast Ratio: 600:1
- Luminance: 450 candles/m2
- Viewing Angle: Horizontal 80° - Vertical up side 80° - vertical down side 60°
- Backlight: White LED

PRELIMINARY

CERTIFICATIONS:

The TERA 8 unit 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. Data logger)
- Internal Buzzer

MECHANICAL CHARACTERISTICS AND RATINGS:

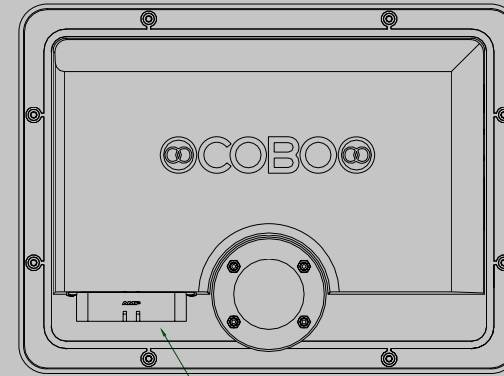
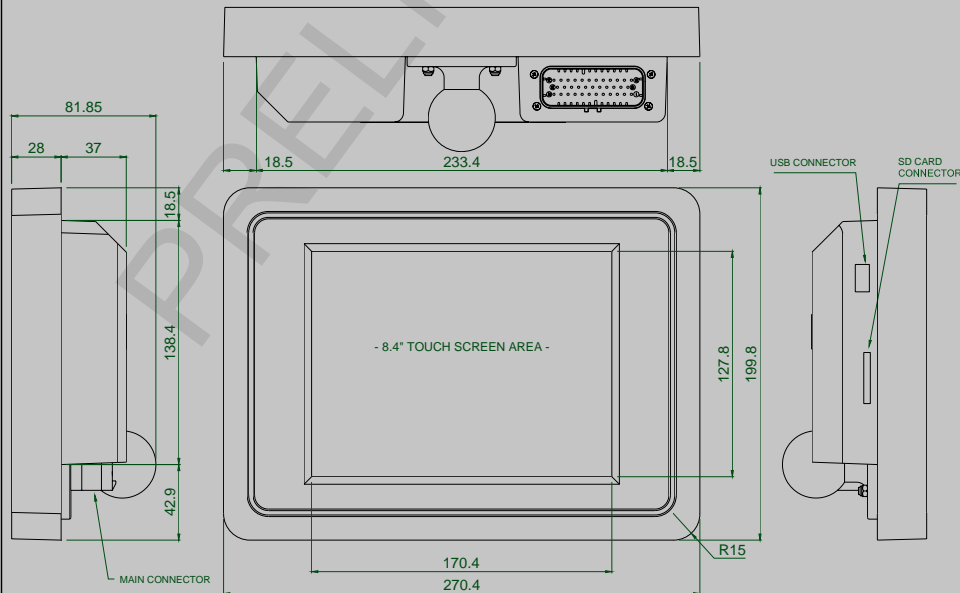
- Operating Temperature Range: from -30°C to +70°C (from -22°F to +158°F) (to verify)
- Storage Temperature Range: from -30°C to +85°C (from -22°F to +185°F) (to verify)

On dash or Out dash version

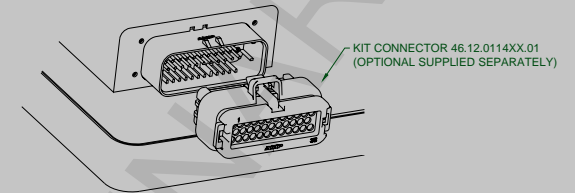
- Housing: Black PUR
- Protection: IP54
- Housing Dimension: 270,4 x 199,8 x 81,85 mm

Connectors:

- 35 poles automotive connector Male Receptacle.

MECHANICAL DIMENSIONS:

MAIN CONNECTOR
SEE CONNECTION TABLE



KIT CONNECTOR 46.12.0114XX.01
(OPTIONAL SUPPLIED SEPARATELY)

Pin n°	Name	Signal Description
1	+VB	Switched Power Supply (Main Power)
2	UART2_TX	COM2 - TX Signal (RS232)
3	UART2_RX	COM2 - RX Signal (RS232)
4	GND	Ground Signal
5	CAN1-H	CAN BUS High (Line 1)
6	CAN1-L	CAN BUS Low (Line 1)
7	GND	Ground Signal
8	UART4_TX	COM4 - TX Signal (RS232) - Only for Linux Console
9	ETH_T+	Ethernet T+
10	ETH_T-	Ethernet T-
11	ETH_R+	Ethernet R+
12	ETH_R-	Ethernet R-
13	+V_STBY	Power Supply Always ON for STAND-BY Mode
14	UART1_DSR	COM1 - DSR Signal (RS232)
15	UART1_RTS	COM1 - RTS Signal (RS232)
16	UART1_CTS	COM1 - CTS Signal (RS232)
17	UART1_RI	COM1 - RING Signal (RS232)
18	UART1_DTR	COM1 - DTR Signal (RS232)
19	UART1_TX	COM1 - TX Signal (RS232)
20	UART1_RX	COM1 - RX Signal (RS232)
21	UART1_DCD	COM1 - DCD Signal (RS232)
22	GND	Ground Signal
23	UART4_RX	COM4 - RX Signal (RS232) - Only for Linux Console
24	-VB	Negative Power Supply Pin
25	CAN2-H	CAN BUS High (Line 2)
26	CAN2-L	CAN BUS Low (Line 2)
27	GND	Ground Signal
28	GND	Ground Signal
29	VIDEO-A	INPUT Video A
30	VIDEO-B	INPUT Video B
31	GND	Ground Signal
32	D+	USB Data+
33	D-	USB Data-
34	VBUS	USB VBus
35	GND	USB Ground

MAIN CONNECTOR FRONT VIEW
NUMBER PIN POSITION

