

eTOP-EPC1230T/1231T



Main Features

- 4:3 12.1" SVGA Fanless LED Panel Computer
- Intel® Atom™ D2550, Dual Core, Low Consumption CPU
- Flush Panel by 5-wire Touch Screen
- Dual GbE/ 2nd display-VGA/ Line-in/ Line-out/ MIC-in/ PS2 KB/MS
- USB x4/ 2x Mini-PCIe sockets/ 1x CFast/ 2x RS232/ 422/ 485
- Optional 3.5G/ Wi-Fi Module / 2.5" HDD/ 2x COMs / GPIO / DIO
- DDR3 2GB/ 2.5" HDD Bracket
- IP65 Compliant Front Panel
- Mounting Support: Panel/ Wall/ Stand/ VESA 100mm x 100mm
- Wide Range Power Input 12V~30V DC

Product Overview

The 12.1" fanless panel PC eTOP-EPC230T/1231T incorporating an industrial motherboard is intended for versatile industrial applications. eTOP-EPC1230T/1231T has a touch screen LED backlight LCD panel with 800x600 (SVGA) resolution and 450-nit brightness. The front panel which adopts flush design and complies with IP65 standard makes it the perfect fit in industrial applications.

This APCC series supports WWAN/WLAN expansion and others via dual Gigabit Ethernet connectors, two Mini-PCIe slots and one SIM card holder. With support for wide power input of 12V~30V, this eTOP-EPC series can gain a strong foothold in industrial field and machine devices. In addition, this eTOP-EPC series can hook 2nd display via a VGA port for dual independent display. eTOP-EPC1231T has two isolated RS232/422/485 ports, two RS232 ports supporting 5V and 12V power feed, four isolated channels of DI and DO, and two channels of GPI and GPO.

Specifications

Panel

- LED Size: 12.1", 4:3
- Resolution: SVGA 800x600
- Luminance: 450cd/m²
- Contrast ratio: 700
- LCD color: 16.2M
- Viewing Angle: 65(U), 75(D), 80(L), 80(R)
- Backlight: LED

Touch Screen

- 5-wire resistive (flush panel type)
- Light transmission: 80%
- Interface: USB

System

- CPU: On-board Intel® Atom™ Dual Core processor D2550, 1.86GHz, 1M L2 Cache
- BIOS: AMI BIOS
- System chipset: Intel® NM10 Express chipset
- System memory: 2x 204-pin DDR3 SO-DIMM socket (Default), Support up to 4GB DDR3-800/1066, Non-buffered
- Storage Device:

- 1x external locked CFast socket
- 1x hard drive bay: optional 1x 2.5" SATA HDD or 1x SATA DOM
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (Tolerance 15% under room temperature 25°C)
- H/W status monitor: Monitoring system temperature, and voltage
- Expansion: 2x Mini-PCIe sockets (support optional Wi-Fi or 3.5G module)
- Panel backlight control button: Increase brightness / decrease brightness / Backlight On/Off (For eTOP-EPC1231T only)

Rear I/O

- Ethernet: 2x RJ45
- 2nd display VGA port: 1x DB15
- Audio port: 1x Line out; 1x Line in; 1x MIC-in
- USB: 4x USB 2.0
- PS2 keyboard/ mouse
- Power switch / Reset button
- COM #1: RS232/422/485 w/RI or 5V selection
- COM #2: RS232/422/485 w/RI or 12V selection
- DI/DO: 4x isolated
- GPI/GPO: 2x isolated

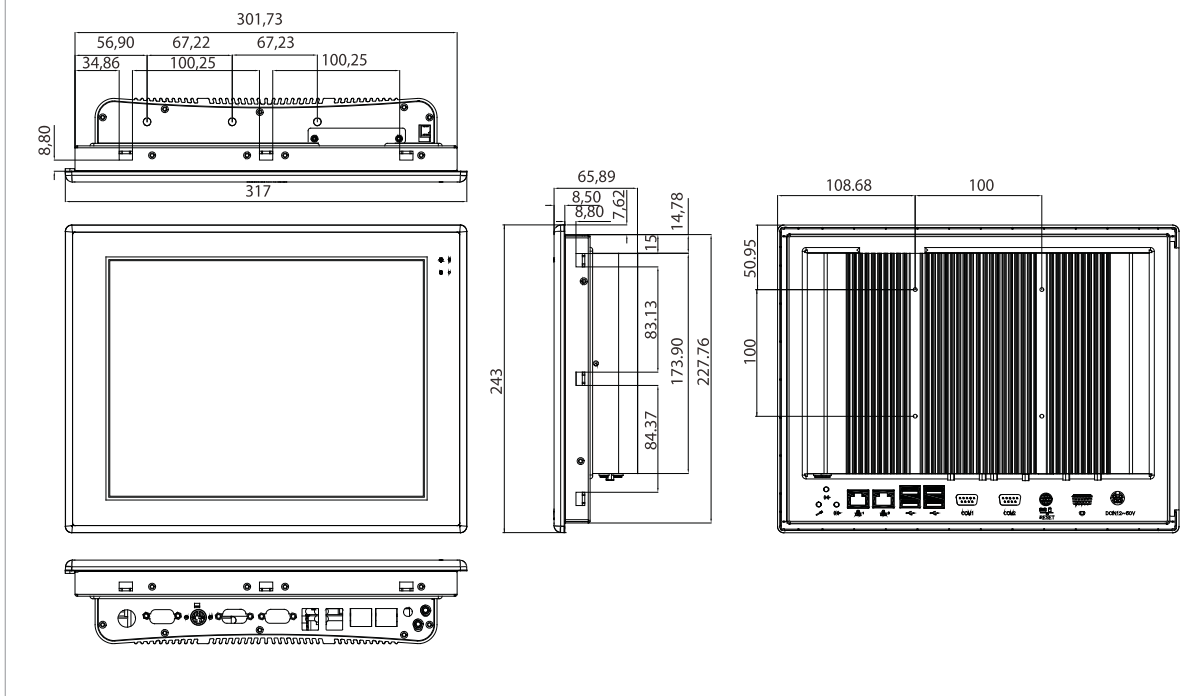


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Dimension Drawing



- 4x Digital Input (Source type)
 - Input Voltage (Dry Contact): Logic 0: Close to GND
 - Logic 1: Open
 - Input Voltage: Logic 0: 3V max
 - Logic 1: +5V ~ +30V
- 4x Digital Output (Sink type)
 - Output Voltage: 3.6V ~ 5V
 - Sink current: 200 mA max. per channel
- GPIO: 2x digital in / 2x digital out
- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #2: RS232/422/485 w/ 2.5kv isolated
- COM #3: RS232 w/ RI or 5V selection
- COM #4: RS232 w/ RI or 12V selection
- Vibration:
 - IEC 68 2-64 (w/ HDD)
 - 1Grms @ sine, 5~500Hz, 1hr/axis (HDD Operating)
 - 2Grms @ sine, 5~500Hz, 1hr/axis (CFast Operating)
 - 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (Non-operating)
- Shock:
 - IEC 68 2-27
 - HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -5°C to 60°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
 - Limits to be at 90% RH at max 50°C
- Dimension: 317 x 243 x 65.89mm (Cutout: 304.5 x 230mm)
- Weight: 3.9 Kg

Audio

- AC97 codec: Realtek ALC886-GR
- Audio interface: Line out/Line in/MIC-in Audio Jack

Ethernet

- LAN chip: dual Intel® 82574L Gigabit LAN
- Ethernet interface: 10/100/1000 Based-Tx Ethernet compatible

Mechanical & Environment

- Color: pantone blackRAL 15 00 front bezel w/ Pantone 400C\RAL 090 80 10 metal style membrane
- IP protection: IP65 front
- Mounting: panel/ wall/ stand/ VESA 100mm x 100mm
- Power input: 12V~ 30VDC
- Power adapter: Optional AC to DC power adaptor (+12V, 60W)

Certifications

- CE approval

Ordering Information

- eTOP-EPC1230T (P/N: 71EPC1230T)**
12.1" SVGA LED Backlight Touch Panel PC, Intel® Atom™ D2550 1.86 GHz, touch screen, 1GB DDR3, 2x RS232/422/485
- eTOP-EPC1231T (P/N: 71EPC1231T)**
12.1" SVGA LED Backlight Touch Panel PC, Intel® Atom™ D2550 1.86 GHz, touch screen, 1GB DDR3, 2x RS232/422/485 and 4x4 DI/O with isolated protection, 2x RS232, 2x2 GPIO, Brightness adjustment buttons

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