eTOP-EPC1245T

Main Features

- 4:3 12.1" XGA Fanless LED Panel Computer
- Intel® Atom™ E3826, Dual Core, Low Consumption CPU
- Flush Panel by 5-wire Touch Screen
- Dual GbE/2nd display-VGA/Line-out/PS2 KB/MS
- USB x 3/2 x Mini-PCIe sockets/1 x CFast/2 x RS232/422/485
- Fieldbus port
- DDR3L 2GB/2.5" HDD Bracket
- IP65 Compliant Front Panel
- Mounting Support: Panel/Wall/Stand/VESA 100mm x 100mm
- Wide Range Power Input 12V~30VDC

Product Overview

The 12.1" XGA fanless panel eTOP-EPC1245T incorporating an industrial motherboard is intended for versatile industrial applications. eTOP-EPC1245T supports 1024 x 768 (XGA) resolution and 500-nit brightness. The front panel which adopts flush design and complies with IP65 standard makes it the perfect fit in industrial applications.

This eTOP-EPC 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-EPC1245T has two isolated RS232/422/485 ports, four isolated channels of DI and DO, and Fieldbus port.

Specifications

Panel

- LED Size: 12.1", 4:3
- Resolution: XGA 1024 x 768
- Luminance: 500cd/m^2
- Contrast ratio: 700
- LCD color: 16.2M
- Viewing Angle: 80(U), 80(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 E3826, 1.46GHz, 1M L2 Cache
- BIOS: AMI BIOS
- System memory: 2 x 204-pin DDR3L SO-DIMM socket, 2GB DDR3L (Default), Support up to 8GB DDR3L-1066/1333, Non-ECC and Un-buffered
- Storage Device:
  - 1 x external locked CFast socket
  - 1 x hard drive bay: optional 1 x 2.5" SATA HDD or 1 x SATA DOM
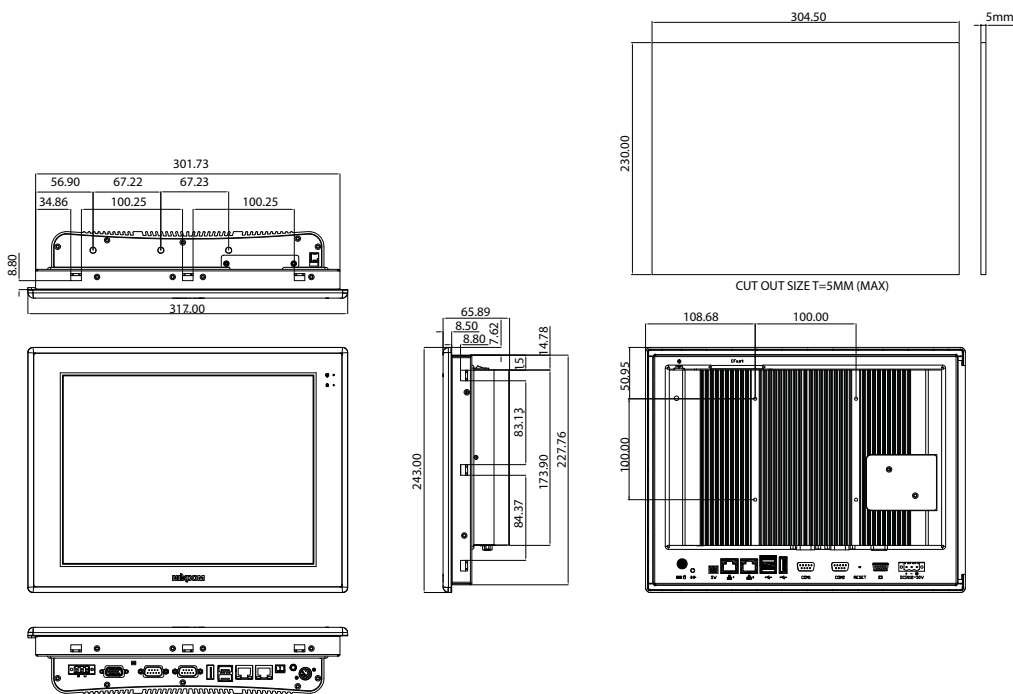- Watchdog timer: Watchdog timeout can be programmable by

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: 2 x Mini-PCIe sockets (support optional Wi-Fi, 3.5G module or Fieldbus Card)

Rear I/O

- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line-out
- USB: 2 x USB 2.0 + 1 x USB 3.0
- PS2 keyboard/mouse
- Power switch
- Reset button
- 2-pin Remote Power on/ off switch
- DIO w/ 2.5kv isolated (Optional):
  - 4 x 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
  - 4 x Digital Output (Sink type)
  - Output Voltage: 3.6V ~ 5V
  - Sink current: 200 mA max. per channel

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Dimension Drawing

CUT OUT SIZE T=5MM (MAX)

- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #2: RS232/422/485 w/ 2.5kv isolated
- Fieldbus: (Protocol interface Optional)

Audio
- HD audio codec: Realtek ALC886-GR
- Audio interface: Line-out/Line-in(Optional)/MIC-in(Optional)

Ethernet
- LAN chip: dual Intel® I210AT Gigabit LAN
- Ethernet interface: 10/100/1000 Based-Tx Ethernet compatible

Mechanical & Environment
- Color: pantone black\RAL 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)
- 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
- Weight: 4 Kg

Certifications
- CE approval

Ordering Information

- **eTOP-EPC1245T (P/N: +71EPC1245T)**
  12.1" XGA LED Backlight Touch Panel PC, Intel® Atom™ E3826 1.46GHz, touch screen, 2GB DDR3L, 2 x RS232/422/485 and 4 x 4 DI/O with isolated protection, Brightness adjustment buttons.

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