

eTOP-EPC1245T Tech-Note

12.1" TFT XGA 4:3 Flush Panel PC with Intel Celeron J1900, up to 2.0GHz

- 4:3 12.1" XGA fanless LED panel computer
- Intel® Celeron® J1900, Quad Core, low consumption CPU
- Flush panel by 5-wire touch screen
- Dual GbE/2nd display-VGA/Line-out
- 3 x USB/2 x mini-PCIe sockets/1 x CFast/2 x RS232/422/485
- DDR3L 4GB/2.5" HDD bracket
- IP65 compliant front panel
- Mounting support: panel/wall/stand/VESA 100x100mm
- Wide range power input 12V~30VDC



Highlights

The 12.1" XGA fanless panel PC 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 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 12~30VDC, this EPC series can gain a strong foothold in industrial field and machine devices. In addition, this EPC series can hook 2nd display via a VGA port for dual independent display. eTOP-EPC1245TJ has two isolated RS232/422/485 ports.



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eTOP-EPC1245T Technical Data



Panel

- LCD size: 12.1", 4:3
- Resolution: XGA 1024 x 768
- Luminance: 500cd/m²
- Contrast ratio: 700
- LCD color: 16.7M
- Viewing angle: 70(U), 70(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® Celeron® Quad Core processor J1900, up to 2.0GHz, 2M L2 cache
- BIOS: AMI BIOS
- System memory: 2 x 204-pin DDR3L SO-DIMM socket, 4GB DDR3L (default), support up to 8GB DDR3L-1066/1333, non-ECC and un-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: 2 x mini-PCIe sockets (support optional Wi-Fi, 3.5G module)



Rear I/O

- Ethernet: 2x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line-out
- USB: 2x USB 2.0 + 1x USB 3.0
- Power switch
- Reset button
- 2-Pin remote power on/off switch

- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #2: RS232/422/485 w/ 2.5kv isolated

Audio

- HD audio codec: realtek ALC886-GR
- Audio interface: Line-out

Ethernet

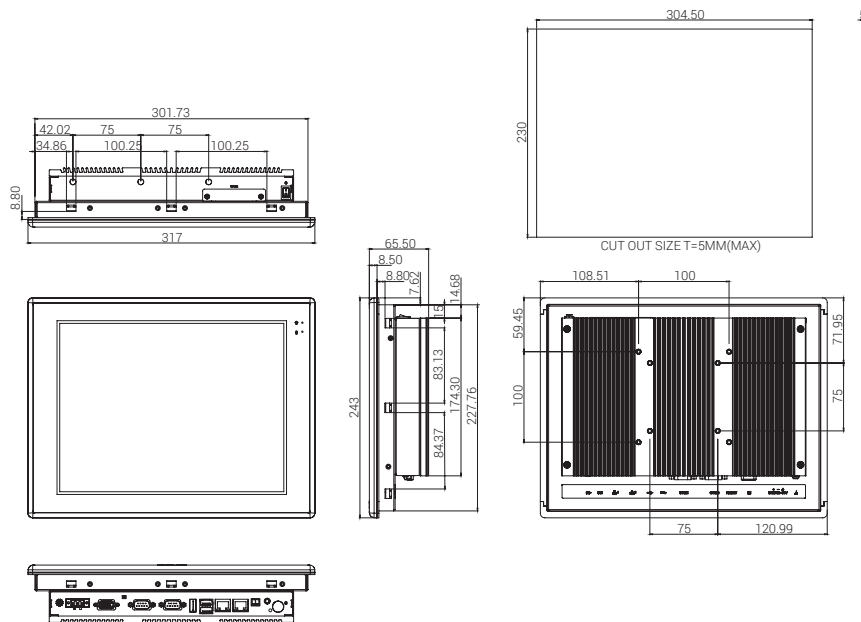
- LAN chip: dual Intel® I210-AT Gigabit LAN
- Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

Mechanical & Environment

- Color: Pantone black\RAL 15 00 front bezel w/ Pantone 400C\RAL 090 80 10 metal style membrane and black silver PC box
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power
 - Powerinput: 12V~30VDC
 - Poweradapter: optional ACtoDCpoweradapter(+12V,60W)
- Vibration: IEC682-64(w/HDD)
 - 1Grms@sine,5~500Hz,1hr/axis (HDDoperating)
 - 2Grms@sine,5~500Hz,1hr/axis (CFastoperating)
 - 2.2Grms@randomcondition,5~500Hz,0.5hr/axis (non-operating)
- Shock: IEC682-27
 - HDD:20G@wallmount,halfsine,11ms
- Temperature
 - Operating temperature: -5°C~60°C
 - Storage temperature: -20°C~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 65.5 mm
- Weight: 3.6 kg

Certifications

- CE approval
- FCC Class A



Ordering Information

Model	Part Number	Description
eTOP-EPC1245T	+71EPC1245TJ	12.1" TFT XGA 4:3 Flush Panel PC with Intel® Celeron® J1900, up to 2.0GHz, Touch Screen, 4GB DDR3L, 3 x USB, 2 x COM