

# eTOP-EPC1540T Tech-Note

The 15" fanless panel PC eTOP-EPC1540T incorporating an industrial motherboard is intended for versatile industrial applications. The panel PC has a touchscreen LED backlight LCD panel with 1024 x 768 (XGA) resolution and 400-nit brightness. The front panel which adopts flush design and complies with IP65 standard makes it the perfect fit in industrial applications. The EPC1540T 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, EPC1540T can gain a strong foothold in industrial field and machine devices. In addition, EPC1540T can hook 2nd display via a VGA port for dual independent display. EPC1540T has two isolated RS232/422/485 ports.



- 4:3 15" 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/PS2 KB/MS
- 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 100mm x 100mm
- Wide range power input 12V~30VDC

## Specifications

### Panel

LCD size: 15", 4:3  
 Resolution: XGA 1024 x 768  
 Luminance: 450cd/m<sup>2</sup>  
 Contrast ratio: 800  
 LCD color: 16.2M  
 Viewing angle: 70 (U), 80 (D), 80 (L), 80 (R)  
 Backlight: LED

### Touch Screen

5-wire resistive (flush panel type)  
 Light transmission: 81%  
 Interface: USB

### System

CPU: on-board Intel® Celeron® Quad Core processor J1900 processor, up to 2.42GHz, 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:  
 - 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)

### 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  
 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® I210AT Gigabit LAN  
 Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

Applied Panel PC & Monitor

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 adapter (+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: 384.37 x 309.95 x 63.2 mm

Weight: 5.1 Kg

Certifications

CE approval

FCC Class A

OS Support Lists

Windows 7 32-bit/64-bit

Windows 10

