

eTOP-EPC1940T Tech-Note

The 19" fanless panel PC EPC1940T incorporating an industrial motherboard is intended for versatile industrial applications. The panel PC has a touchscreen LED backlight LCD panel with 1280 x 1024 (SXGA) resolution. The front panel which adopts flush design and complies with IP65 standard makes it the perfect fit in industrial applications. The EPC1940T 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, EPC1940T can gain a strong foothold in industrial field and machine devices. In addition, EPC1940T can hook 2nd display via a VGA port for dual independent display. EPC1940T has two isolated RS232/422/485 ports.



- 4:3 19" SXGA 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: 19", 4:3
Resolution: SXGA 1280 x 1024
Luminance: 350cd/m2
Contrast ratio: 1000
LCD color: 16.7M
Viewing angle: 80 (U), 80 (D), 85 (L), 85 (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

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: 457.64 x 379.24 x 61.25 mm

Weight: 6.7 Kg

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 50°C

Certifications

CE approval

FCC Class A

OS Support Lists

Windows 8 32-bit/64-bit

Windows 7 32-bit/64-bit

WinCE 7.0

