

eTOP-IPC1640P Tech-Note

The 15.6" fanless panel PC eTOP-IPC1640P incorporating an industrial motherboard is intended for versatile industrial applications. The panel PC has a touchscreen LED backlight LCD panel with 1366x768 (HD; WXGA) resolution. The front panel which adopts flush design and complies with IP66 standard makes it the perfect fit in industrial applications.

The eTOP-IPC1640P 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, eTOP-IPC1640P can gain a strong foothold in industrial field and machine devices. In addition, eTOP-IPC1640P can hook 2nd display via a VGA port for dual independent display. eTOP-IPC1640P has two isolated RS232/422/485 ports and optional fieldbus ports.



- Intel® Celeron® quad core processor J1900, up to 2.42GHz, 2M L2 cache
- Metal housing with robust aluminum front zero bezel for harsh environment
- 10 points P-Cap multi-touch with zero bezel flush front design
- 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
- IP66 compliant front panel
- Support fieldbus module (optional)
- Mounting support: panel/wall/stand/VESA 100mm x 100mm
- Wide range power input 12~30VDC

Specifications

Panel

LCD size: 15.6", 16:9
 Resolution: WXGA 1366 x 768
 Luminance: 300cd/m2
 Contrast ratio: 500
 LCD color: 16.7M
 Viewing angle: 80 (U), 80 (D), 85 (L), 85 (R)
 Backlight: LED

Touch

Ten points P-Cap (projected capacitive touch)
 Touch light transmission: 87%
 Anti-scratch surface: 7H hardness
 Touch interface: USB
 Windows 8 compliance

System

CPU: onboard Intel® Celeron® Quad Core processor J1900, 2.0GHz, 2M L2 Cache (maximum frequency 2.42GHz if turbo boost enabled)
 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 or fieldbus card)
 Panel backlight control button: increase brightness/ decrease brightness/backlight on/off
 Front logo LED indicator to show operating status

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
- 2-pin remote power on/off switch
- Power switch
- Reset button
- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #2: RS232/422/485 w/ 2.5kv isolated
- Fieldbus: (protocol interface optional)

Audio

- HD codec: Realtek ALC886-GR
- Audio interface: Line-out audio jack

Ethernet

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

Mechanical & Environment

- Color: Pantone 432C\RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- System with panel mounting kit w/o panel mounting hole
- Power input: 12~30VDC

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: -10°C to 60°C

Storage temperature: -20°C to 75°C

Operating humidity: 10%~90% relative humidity, non-condensing

Dimension: 417.4 x 312.4 x 63.75mm

Weight: 6.4Kg

Certifications

- CE (including EN61000-6-2/EN61000-6-4)
- FCC class A

OS Support Lists

- Windows 8 32-bit/64-bit
- Windows 7 32-bit/64-bit
- WinCE 7.0

