

eTOP-IPC2140P Tech-Note

The 21.5" fanless panel PC IPC2140P incorporating an industrial motherboard is intended for versatile industrial applications. The panel PC has a touchscreen LED backlight LCD panel with 1920 x 1080 (Full HD) resolution. The front panel which adopts flush design and complies with IP66 standard makes it the perfect fit in industrial applications. The IPC2140P 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, IPPC2140P can gain a strong foothold in industrial field and machine devices. In addition, IPC2140P can hook 2nd display via a VGA port for dual independent display. IPC2140P 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)

Specifications

Panel

LCD size: 21.5", 16:9
 Resolution: Full HD 1920x1080
 Luminance: 300cd/m2
 Contrast ratio: 5000
 LCD color: 16.7M
 Viewing angle: 89 (U), 89 (D), 89 (L), 89 (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 4GB 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: 562.4x382.4x62.85mm
Weight: 9.26Kg

Certifications

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

OS Support Lists

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

