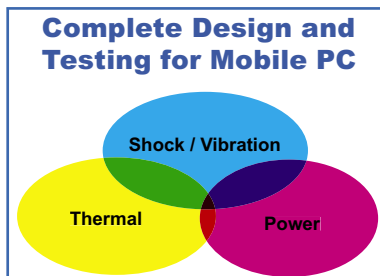


# Highly Integrated Solution for Mobile System

## IEI Mobile PC Solution

### The Enabling Technology behind Mobile PC

A true Mobile PC solution needs to take care of at least three things - high temperature, shock vibration, and uncertainty in steady supply of power. Your everyday laptop computer simply is not built for such environment. With IEI's expertise in industrial grade computer, we have the knowledge to build solutions that meets the standard necessary in a car environment. Our CPC-1201 is just a live demonstration of our ability put into a real product. We ask you to challenge us with your current and future mobile PC project, whether it would be in a car, a bus, train, boat, and even aircrafts. We have what it takes to build it for you.



### The Shock Factor

In a mobile environment, constant or abrupt shock and vibration is unavoidable. While regular PC probably sits on a desk or cold room nice and comfortably, the mobile world is rough and harsh for the PC itself. That is why IEI's expertise in industrial PC becomes valuable. IEI has complete facility to help design and test complete mobile PC solutions for customers who are concerned about the total moving parts.

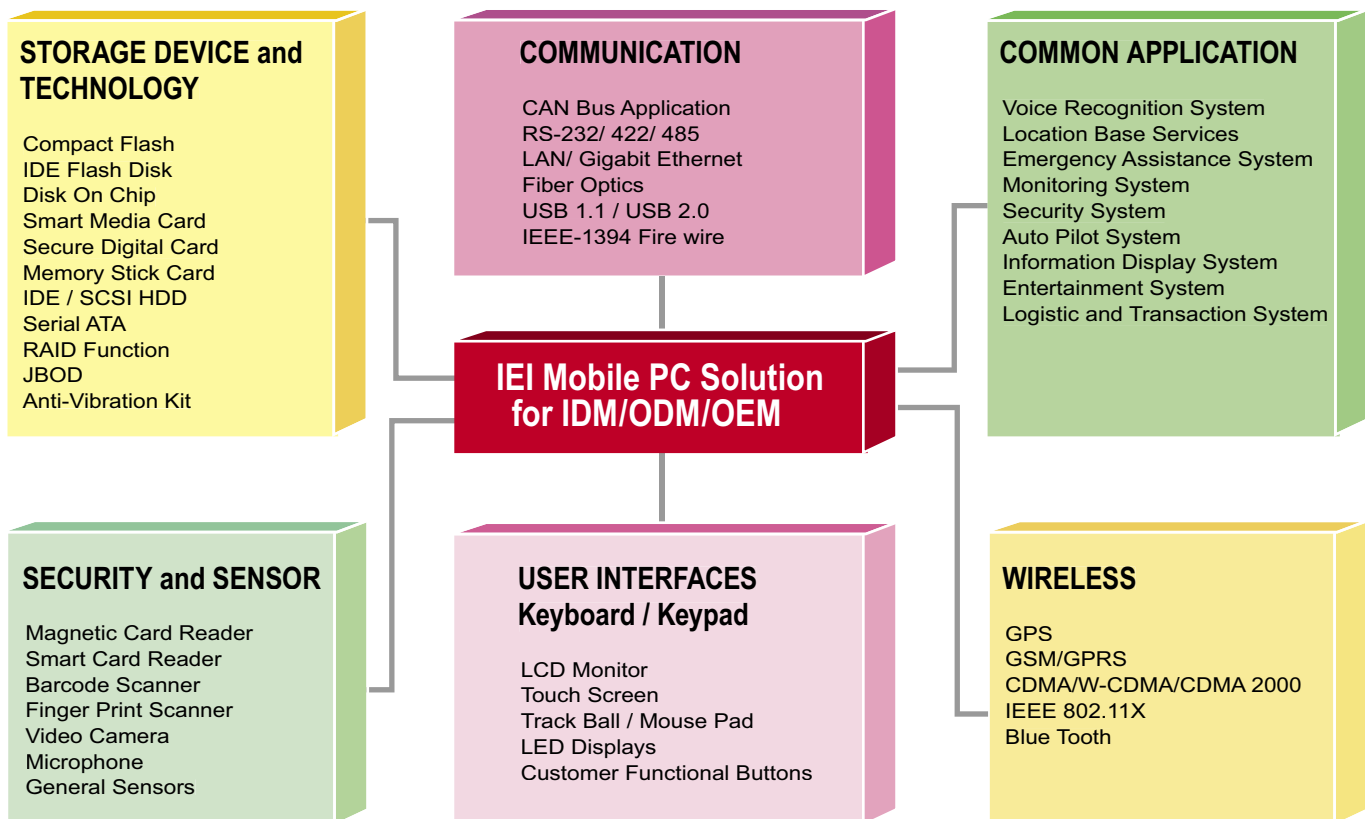
### The Power Factor

A critical factor in mobile PC is power source. In our CPC-1201, we have developed a power source solution with the ACE-810V/ACE-818C power source. These power source has a high tolerance level in input power, and is also integrated with a backup battery module to provide continuous supply of power in the event when there is shortage of power input.

Moreover, it is equally important to lower the total power consumption of the entire Mobile PC system. For this reason, the CPC-1201 uses embedded CPU in order to minimize any chance of moving parts as well as optimize for power consumption.

### The Temperature Factor

The temperature change at various part of the globe can be a factor that would damage or even disable a PC. At IEI, we have dedicated R&D team at solving thermal issues and chassis design to maximize heat dissipation as well as perform simulations of customer's required environmental conditions – we provide total solutions for your needs.



Single Board Computer

LCD Product Series

Chassis

RACK-mount

Compact

Embedded

Barebone System

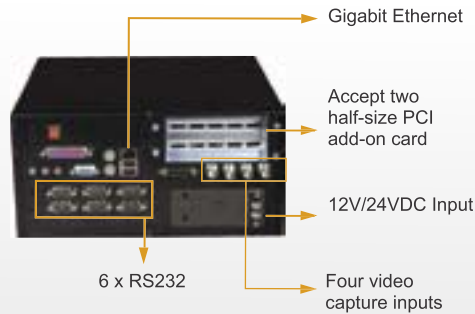
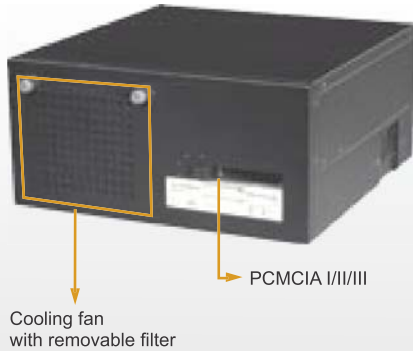
Power supply

Accessory

# CPC-1201

High Integration Mobile PC System

## OEM Project Welcome!



## Specifications

- ◆ Desktop or wall mount, equipped with wall mount kit
- ◆ One 8cm-cooling fan with removable filter
- ◆ Accept two half-size PCI add-on card
- ◆ Standard power supply
  - ACE-810V power supply (12V DC Input, 100W power supply)
  - ACE-818C power supply (24V DC Input, 140W power supply)
  - ACE-720APM mechanical class 200W AC input ATX power supply, no power battery support
- ◆ Option power battery (BM-12V : 3000mAH, BM-24V : 2000mAH)

### Disk Drive Bay

- ◆ 2 X 2.5" internal HDD Drive bays with best anti-vibration design Meets MIL-STD-810F 514.5C-1 standard
- ◆ 1 X 3.5" FDD Drive bay

### Main Board (CP800/ CC400):

- ◆ CPU: Intel low power PIII 800MHz or ultra low power Celeron 400MHz
- Package type: 478-Pin Micro FC-BGA2 (mounted on board)
- ◆ System Chipset: Intel 815E + ICH2, PCI 2.2 compliant
- ◆ System Memory

**On board 256MB SDRAM** and one PC100/133 SO-DIMM slot up to 512MB

- ◆ Display - Build-in FW82815 chip
- V-RAM: Shared with system memory (DVMT technology)
- Resolution: Up to 1600x 1200, 8 bit color
- Connector: DB-15 for CRT display
- ◆ Two ATA-33 IDE RAID channel (Promise PDC 20267)
- ◆ SSD: Compact Flash type II socket on board
- ◆ WDT function: Software programmable support 1~255 second system reset
- ◆ Hardware Monitoring (CPU Vcore; Vcc; CPU/System Fan speed and thermal)

### I/O Connectors(Front Side)

- ◆ PCMCIA: Cardbus interface support type I/II/III (Ricoh R54C476II)

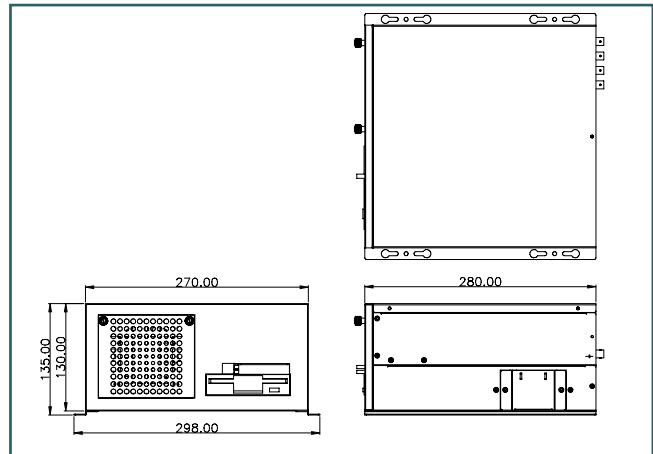
### I/O Connectors (Rear Side)

- ◆ Six D-Sub9 connector for RS-232
- ◆ One D-Sub25 for LPT
- ◆ One D-Sub15 for CRT VGA output
- ◆ Two PS/2 for keyboard and mouse
- ◆ One RJ-45 for Intel 82540 Gigabit Ethernet
- ◆ Two USB 2.0
- ◆ 36 pin connector for extension IDE device
- ◆ Audio (Lin-in, Lin-out, Mic-in)
- C-media 5.1 Channel PCI hardware sound, 6W Amplifier
- ◆ Four video capture inputs with BNC connector
- Chip: Conexant Fusion 878A chip (Multiplexed function)
- Frame speed: 30 FPS
- Video Format: NTSC/ PAL/ SECAM

### Environment

- ◆ Vibration: 5~17Hz, 0.1 double amplitude displacement
- 17~640 Hz, 1.5G acceleration peak to peak
- ◆ Shock: 10G acceleration peak to peak (11ms)
- ◆ Operating temperature: 0~50°C
- ◆ Color: Black (Pantone Black C)
- ◆ Dimension: 270mm(W) x 130mm(H) x 280mm(D)

## Dimensions



## Ordering Information

### ◆ CPC-1201/ CP800 /ACE-810V CC400

Mobile PC with ACE-810V 100W 12VDC input power supply

### ◆ CPC-1201/ CP800 /ACE-818C CC400

Mobile PC with ACE-818C 140W 24VDC input power supply

### ◆ CPC-1201/ CP800 /ACE-720APM CC400

Mobile PC with ACE-720APM 200W AC input power supply  
(No Battery support)

Note: CP800: Low Power Pentium III 800MHz  
CC400: Ultra Low Power Celeron 400MHz

## IEI Optional

- ◆ **BM-12V** :  
Battery module for 12V DC input system, 3000mAH
- ◆ **BM-24V** :  
Battery module for 24V DC input system, 2000mAH