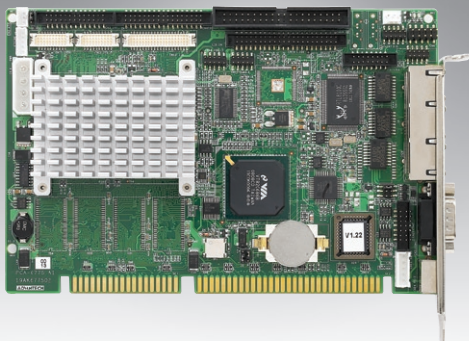


# PCA-6775

VIA Mark ISA Half-size SBC, with  
VGA/LVDS/TTL/LAN/SSD/USB 1.1



## Features

- VIA Mark 533/800 MHz CPU
- 128 MB Memory onboard, supports 1 SODIMM socket SDRAM up to 512 MB
- 10/100 Mbps Ethernet
- Low power consumption and fanless

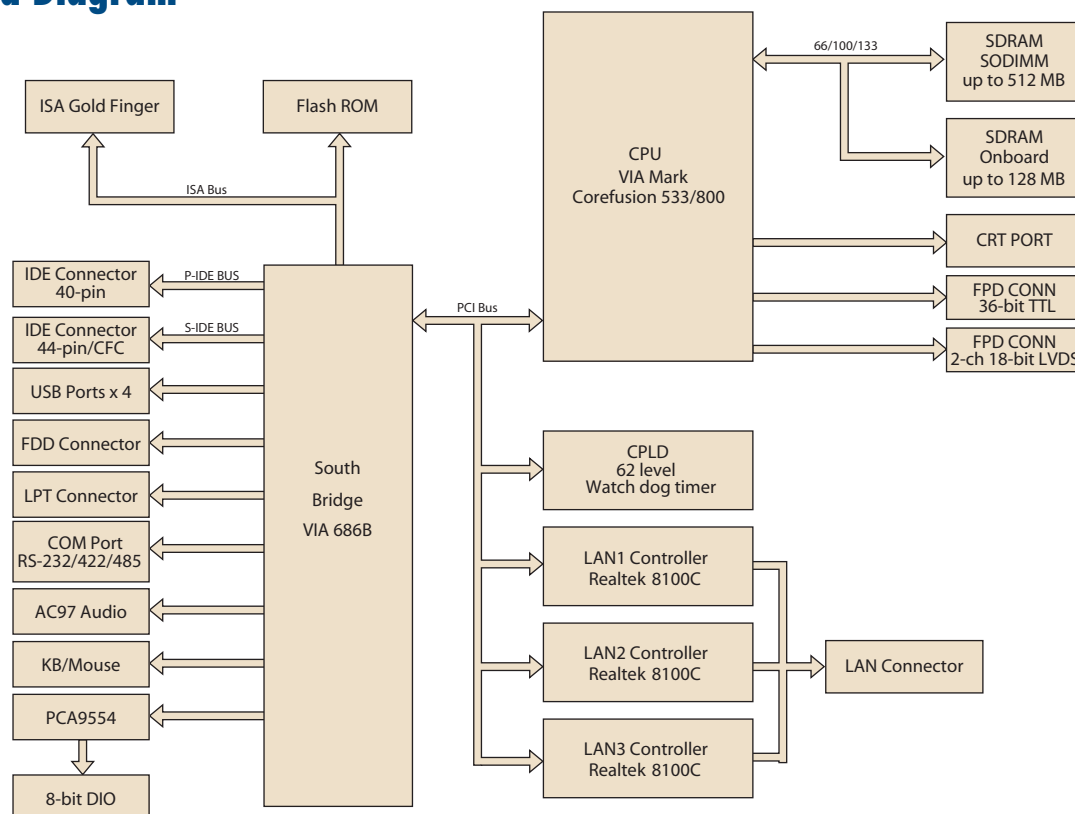


CE FCC

## Specifications

|                   |                  |                                                                                           |                                                     |
|-------------------|------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Processor System  | CPU              | VIA Mark                                                                                  |                                                     |
|                   | Max. Speed       | 533/800 MHz                                                                               |                                                     |
|                   | L2 Cache         | 64 KB                                                                                     |                                                     |
|                   | Chipset          | VIA Mark + 686B                                                                           |                                                     |
|                   | BIOS             | Award 4 Mbit ISA                                                                          |                                                     |
| Bus               | Front Side Bus   | 133 MHz                                                                                   |                                                     |
|                   | PCI              | -                                                                                         |                                                     |
|                   | ISA              | 16-bit/Gold Finger                                                                        |                                                     |
| Memory            | Technology       | PC133 SDRAM                                                                               |                                                     |
|                   | Max. Capacity    | 512 MB                                                                                    |                                                     |
|                   | Socket           | 144-pin SDRAM SODIMM x 1                                                                  |                                                     |
| Graphics          | Controller       | Chipset integrated VGA controller<br>VGA mode:1920 x 1440 @ 75 Hz<br>LCD mode:1600 x 1200 |                                                     |
|                   | VRAM             | Shared with system memory up to 8/16/32 MB                                                |                                                     |
|                   | LVDS             | 36-bit LVDS                                                                               |                                                     |
|                   | TTL              | 36-bit TTL LCD                                                                            |                                                     |
|                   | Dual Display     | VGA+LVDS or VGA+TTL                                                                       |                                                     |
| Ethernet          | Interface        | 10/100 Mbps                                                                               |                                                     |
|                   | Controller       | RTL8100C                                                                                  |                                                     |
|                   | Connector        | RJ-45                                                                                     |                                                     |
| EIDE              | Mode             | ATA 100/66/33                                                                             |                                                     |
|                   | Channel          | 2                                                                                         |                                                     |
| SATA (150MB/s)    | Ports            | -                                                                                         |                                                     |
| I/O Interface     | USB              | Max. 4 (USB 1.1 compliant)                                                                |                                                     |
|                   | Serial           | 1 (RS-232)/1 (RS-232/RS-422/RS-485)                                                       |                                                     |
|                   | Parallel         | 1                                                                                         |                                                     |
|                   | FDD              | 1                                                                                         |                                                     |
|                   | PS/2             | 1 (for mouse and keyboard, Y-cable included)                                              |                                                     |
| Watchdog Timer    | Output           | Interrupt, system reset                                                                   |                                                     |
|                   | Interval         | Programmable, 0 ~ 62 sec.                                                                 |                                                     |
| Miscellaneous     | Audio Output     | AC97 Audio interface (requires an audio extension module P/N: PCM-231A-00A1E)             |                                                     |
|                   | Solid State Disk | CompactFlash socket (Type I/II)                                                           |                                                     |
| Power Requirement | Typical          | VIA Mark 533 MHz with 256 MB SDRAM                                                        |                                                     |
|                   |                  | +12 V (0.04 A)                                                                            | +5 V (2.2 A)                                        |
|                   | Max              | VIA Mark 533 MHz with 256 MB SDRAM                                                        |                                                     |
|                   |                  | +12 V (0.01 A)                                                                            | +5 V (1.64 A)                                       |
| Environment       | Temperature      | Operating                                                                                 | Non-Operating (Storage)                             |
|                   |                  | 0 ~ 60° C (32 ~ 140° F) (operation humidity:<br>40° C @ 85% RH Non-Condensing)            | -40° C ~ 85° C and 60° C @ 95% RH<br>Non-Condensing |
|                   | Dimensions       | 185 mm (L) x 122 mm (W) (7.3" x 4.8")                                                     |                                                     |

## Board Diagram



## Ordering Information

| Part Number      | CPU              | Onboard Memory | FE LAN       |
|------------------|------------------|----------------|--------------|
| PCA-6775F-L0A1E  | VIA Mark 533 MHz | 128 MB         | RTL8100C x 1 |
| PCA-6775F-Q0A1E  | VIA Mark 800 MHz | -              | RTL8100C x 1 |
| PCA-67753F-Q0A1E | VIA Mark 800 MHz | -              | RTL8100C x 3 |
| PCA-67753F-L0A1E | VIA Mark 533 MHz | -              | RTL8100C x 3 |

## Bracket View



PCA-6775F-L0A1E  
PCA-6775F-Q0A1E



PCA-67753F-L0A1E  
PCA-67753F-Q0A1E

## Packing List

| Part Number | Description                           | Quantity |
|-------------|---------------------------------------|----------|
| 1700060202  | Y-cable for PS/2 Keyboard, PS/2 Mouse | x 1      |
| 1701400452  | E-IDE (HDD) Cable, 2.54 mm pitch      | x 1      |
| 1701440500  | S-IDE (HDD) Cable, 2.0 mm pitch       | x 1      |
| 1701340603  | FDD Cable                             | x 1      |
| 1700260250  | Parallel port cable                   | x 1      |
| 1703100260  | USB cable with 2 ports                | x 1      |
| 1701140201  | COM port cable (RS-232/422/485)       | x 1      |
| 1700002343  | Power Cable                           | x 1      |
| 9689000002  | Jumper pack                           | x 1      |
| -           | Startup manual                        | x 1      |
| -           | Utility CD                            | x 1      |

## Accessories

| Part Number      | Description                              |
|------------------|------------------------------------------|
| IPC-644BP-15ZE   | 4-slot chassis w/150W power supply       |
| IPC-6806SB-15ZBE | 6-slot chassis w/150W power supply       |
| 1703100260       | USB cable with 2 ports (2.0mm pitch)     |
| PCM-231A-00A1E   | Audio module with Line-in, Line-out, Mic |
| PCA-SATAP2-00A1E | IDE/SATA Adapter for CPU cards           |