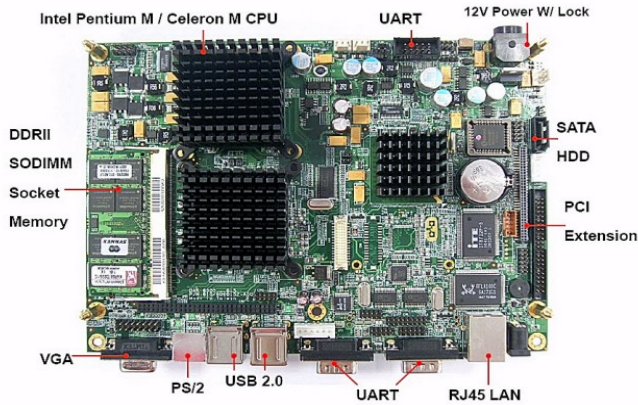


# OAK 6000

Intel® Pentium M / Celeron M High Performance  
 Embedded board optional up to 10 ports RS-232  
 For Point-Of-Sale Appliance , workable under -20°C



## Feature

- 5.25" Industry Embedded Board
- Intel® Celeron M / Pentium M 400/533Mhz FSB up to 2.0GHz
- Intel® 915GM North & ICH6-M South Bridge Chipset
- 2 Channel DDR2 Memory , Up to 1.5 GB w/o ECC
- Dual independent display support
- Optional up to 10 ports of RS-232 , 8 ports with DC-power output
- 1 PCI (with Riser CARD) , 1 Mini PCI & 1 CF expansion slots
- Flexible I/O expansion board support
- Supports AT /ATX power on mode with Hardware logic insurance
- Supports 2.5 " ATA-66/100 and 2.5"/3.5" SATA HDD
- Smart Fan management

## Specification

### Board Dimension

- 5.25" Compact size 203(W) X144(D)

### Processor

- Support Intel® Celeron M / Pentium M Processor
- 479 pin package , 400 / 533 Mhz FSB

### Chipset

- Intel® 915GM North & ICH6-M South Bridge Chipset

### Memory

- 2 Channels DDR2 Memory , Up to 1.5GB w/o ECC
- 1 DDR-2 SODIMM socket & 256 / 512 MB On board
- 400 / 533 Mhz DDR2 Memory

### BIOS

- Award System BIOS
- Support Console Redirection & Power On After Power failure

### Extra Linux Driver

- Watch-Dog Timer Driver

### Disk Drive Storage

- 1 channel of 44 pin 2.5" HDD & SATA interface
- 1 CF module slot

### Expansion

- 1 32 bit PCI pin-Header
- 1 Mini PCI slot

### Ethernet

- 1 port of 10/100 Mbps LAN with Wake-On-Lan & DMI

### Watchdog timer

- Programmable WDT from 1 to 255 seconds/minutes

### Keyboard/Mouse

- 6 pin PS/2 connector with Extend cable

### Display Function

- Dual independent display supports
- VGA + DVI-D or VGA+ 18 bit LVDS dual display supports
- Optional supports 18 bit LVDS + 24 bits LVDS

## Ordering Guide

| Ordering NO.  | CPU              | On-Board Memory  | Display           | RS-232            | HDD I/F          | Expansion slot | USB                |
|---------------|------------------|------------------|-------------------|-------------------|------------------|----------------|--------------------|
| OAK 6000-152  | C-M 600M/512K L2 | 256 MB           | VGA+18 bit LVDS   | 2 * DB-9 +4 * Pin | 44 pin IDE+ SATA | Mini PCI       | 4 * front +2 * Pin |
| OAK 6000-200  | C-M 600M/512K L2 | 256 MB           | 2*LVDS(18+24 bit) | 2 * DB-9 +4 * Pin | 44 pin IDE+ SATA | Mini PCI       | 4 * front +2 * Pin |
| OAK 6000-100  | w/o              | w/o              | VGA+18 bit LVDS   | 2 * DB-9 +4 * Pin | 44 pin IDE+ SATA | Mini PCI       | 4 * front +2 * Pin |
| Ordering NO.  | PIO              | Audio            | Display           | RS-232            |                  |                |                    |
| Cross Board-1 | 1 * DB-25        | w/o              | DVI-D             | 3*DB-9 +1*Pin     |                  |                |                    |
| Cross Board-2 | 1 * DB-25        | Mic+Speaker+L-in | w/o               | 3*DB-9 +1*Pin     |                  |                |                    |



### RS-232 supports

- Main board supports 6 ports of RS-232 , 2 ports w/ DB-9 connector 4 ports w/ pin-Header, total have 4 ports support DC-output .
- Expansion board supports 6 ports of RS-232 , 2 ports w/ DB-9 connector , 1 port w/ pin-Header, all 4 ports support DC-output

### Hardware Monitor & Smart Fan management

- Monitors Voltage , Temperature & Fan speed

### Main Board I/O

- 6 \* RS-232 , 4 \* USB , 1 \* VGA , 1 \* LAN , 1 \* KB/MS ,

### Extend board -1 I/O

- 4 \* RS-232 , 1 \* PIO , 1 \* DVI-D

### Extend board -2 I/O

- 4 \* RS-232 , 1 \* PIO , 1 \* Mic-phone , 1 \* Speaker , 1 \* Line-IN

### Internal reserved I/O

- VGA , Keyboard / Mouse pin header interface

### Power Supply

- DC-12 V / 5 A input
- Support Lock & Un-Lock two types DC-IN power connector

### Power ON/OFF mode

- AT or ATX Power ON/OFF mode with Hardware logic protected
- lose Battery setup

### COM port support DC output

- DC-5V or DC-12V output supports

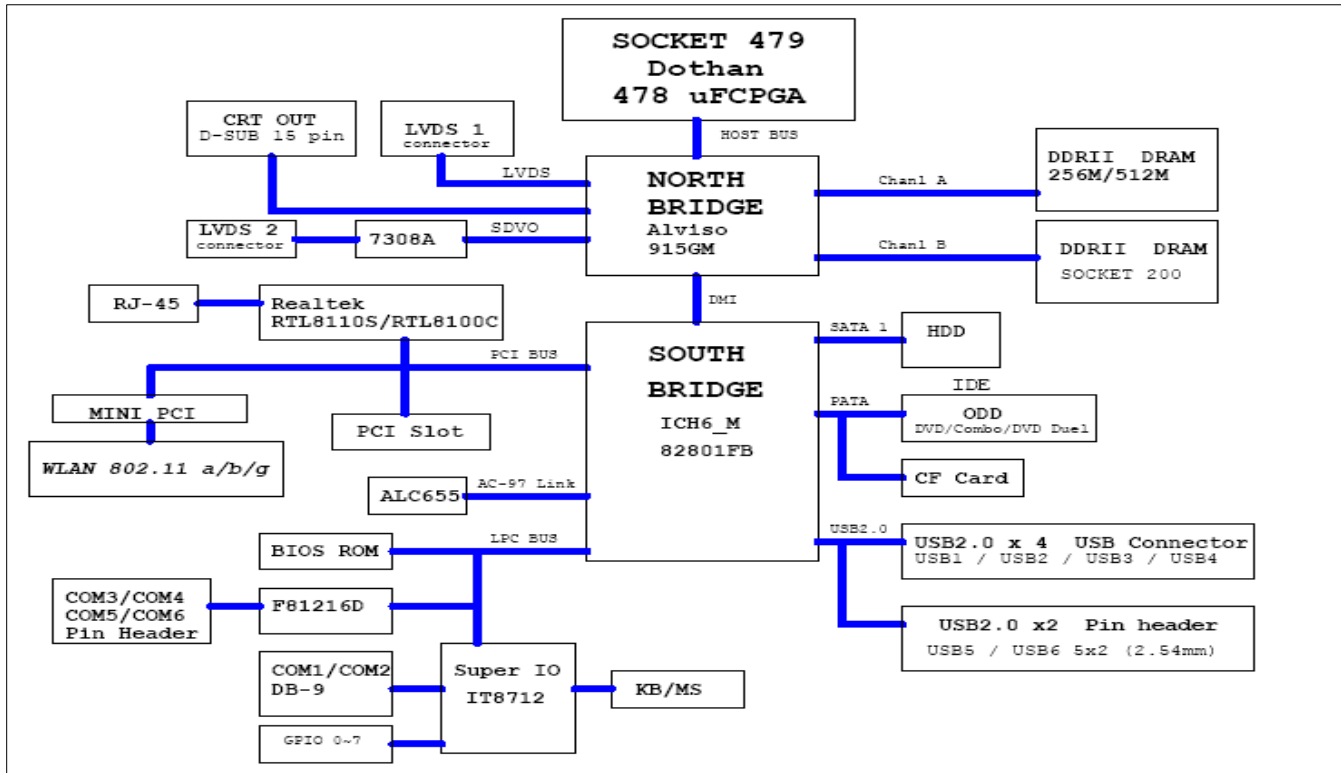
### Environment

- Operation temperature : 0°C ~ 60°C (Stress test: - 20°C~60°C)
- Storage temperature : -20°C ~ 80°C
- Relative humidity : 10% ~ 90% ( Non-condensing)

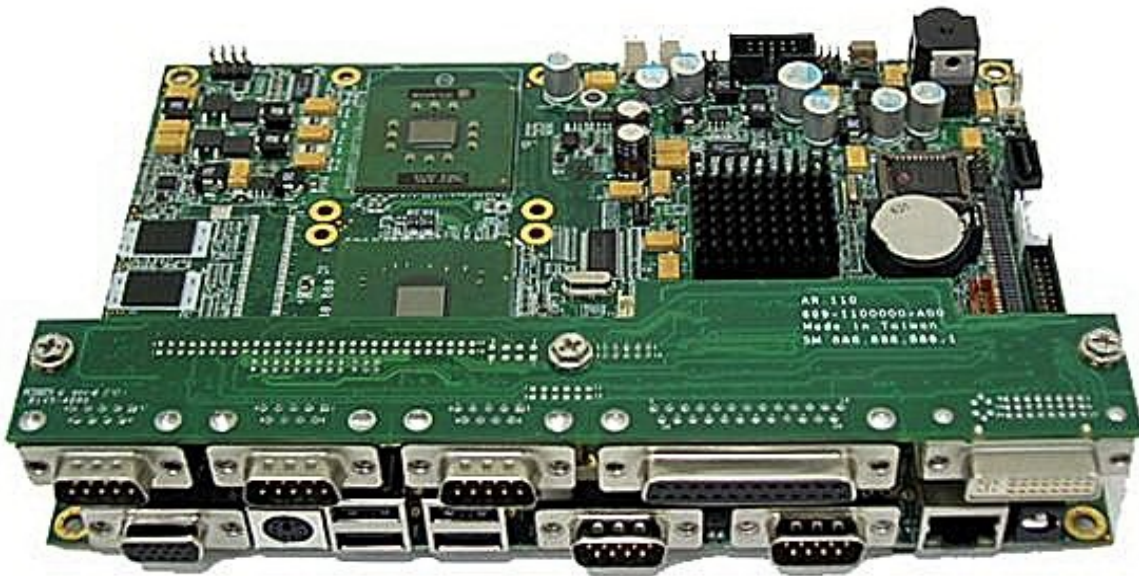
### Certification

- CE Class A
- FCC Class A

OAK 6000 Embedded Board block diagram



OAK 6000 Embedded Board configuration with Cross board-1



OAK 6000 Embedded Board configuration with Cross board-2

