

**PCISA Intel Pentium-M/Celeron-M CPU Card with LCD/CRT
VGA,Dual LAN,USB2.0 and Audio**

PCISA-6770-RS
Quick Installation Guide
Version 2.0

May. 4, 2007

Package Contents

PCISA-6770-RS package includes the following items:

- 1x PCISA-6770-RS single board computer
- 1x ATA66/100 HDD cable P/N: 32200-000052-RS
- 1x KB/PS2 Mouse Y cable P/N: 32000-000138-RS
- 1x RS232 cable P/N: 19800-000027-RS
- 1x RS232/422/485 cable P/N:32200-000077-RS
- 1x USB cable P/N: CB-USB02A-RS
- 1x Audio cable P/N:19800-000044-RS
- 1 x mini jumper pack
- 1 x Utility CD
- 1 x QIG (Guick Installation Gguide)



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Specifications

- CPU: Intel Pentium M/Celeron M Socket 479 up to 400MHz FSB/Onboard Celeron M 800MHz zero cache
- System Chipset: Intel 852GM+ICH4
- BIOS: AMI BIOS Label
- System memory: DDR266 SDRAM socket support up to 1GB
- Ethernet: 2x 10/100 Mbps Intel 82562ET/82551ER fast Ethernet controller onboard

- I/O

I/O Interface:

- 1 x RS-232
- 1 x RS-232/422/485
- 1 x LPT by pin-header
- 1 x IrDA by pin-header
- 5 x USB 2.0(1 in rear,4 by pin header)
- 1x ATA-100
- 1x ATA-33 IDE channel
- 2 x PS/2 keyboard/mouse
- 1 x FDD

Supper I/O: W83697HG

Digital I/O:4 input / 4output

- Display: CRT integrated in Intel 852GM
- Audio: AC'97 Audio codec
- Power supply:5V/12V, AT/ATX power support
- Power Consumption:
 - 5V@3.5A, 12V@1.9A
 - Pentium M 1.7G/2M,DDR266/512MB
 - 5V@2.2A, 12V@0.44A
 - Celeron M 800MHz,DDR 400/1 GB
- Temperature: 0 ~ 60°C(32 ~ 140°F)
- Watchdog timer: Software programable 1-255 sec. by supper I/O

Ordering Information

Standard

PCISA-6770E2-RS-R20

PCISA Intel Pentium-M/Celeron-M CPU Card with LCD/CRT VGA, Dual LAN, USB2.0 and Audio

PCISA-6770E2-RS-800Z-R20

PCISA Intel Celeron-M 800MHz Zero Cache CPU Card with LCD/CRT VGA, Dual LAN, USB2.0 and Audio

Optional:

1. FDD cable P/N:32200-000058-RS
2. RS232/LPT cable P/N: 19800-000027-RS

Jumpers setting and Connectors

| LABEL | FUNCTION |
|-------|---|
| JP1 | CMOS state setting |
| JP2 | CompactFlash Master(1-2)/Slave(2-3) setting |
| JP3 | LVDS LCD power source 3.3V(1-2)/5v(2-3) setting |
| | |

| JP1 : Clear CMOS Setup | |
|------------------------|------------------|
| JP1 | DESCRIPTION |
| 1-2 | Normal Operation |
| 2-3 | Clear CMOS Setup |

| JP2 : Master/Slave Mode Setting | |
|---------------------------------|-------------|
| JP2 | DESCRIPTION |
| 1-2 | Master |
| 2-3 | Slave |

| JP3 : 3.3V/5V Mode Setting | |
|----------------------------|-------------|
| JP3 | DESCRIPTION |
| 1-2 | 3.3V |
| 2-3 | 5V |

| Label | Function |
|--------------|--|
| IDE1 | Ultra ATA100 Primary (40 Pin) |
| IDE2 | Secondary IDE connectors (44 PIN) |
| FDD1 | Floppy connector |
| LPT1 | Parallel port connector |
| DIO1 | Digital I/O |
| COM1 | Serial port connector(10 Pin) |
| COM2 | RS-232/422/485 connector(14 PIN) |
| J1 | Compact Flash Storage Card Type II connector |
| IR1 | IRDA infrared interface port |
| USB1 | USB port connector |
| USB2 | USB dual port connector |
| USB3 | USB dual port connector |
| J4 | LAN1 RJ45 (10/100) connectors |
| J5 | LAN2 RJ45(10/100/1000(optional)) connectors |
| KBM1 | 6-pin Mini-Din Keyboard & Mouse connector |
| KB1 | External 5-pin Header Keyboard Connector |
| FAN1 | FAN connector |
| CN3 | External switches and indicators |
| CD-IN | Audio CD IN connector |
| CN4 | Backplane to CPU board ATX power control Connector |
| DVI | DVI DISPLAY(Optional) |
| LVDS1 | LVDS1 CONNECTOR |
| CN1 | Backlight Inverter Connector |

| COM1 : 10-pin header onboard | | | |
|-------------------------------------|----------------------------|------|----------------------------|
| COM2 : 14-pin header onboard | | | |
| PIN | DESCRIPTION | PIN | DESCRIPTION |
| 1 | DATA CARRIER DETECT (DCD) | 2 | DATA SET READY (DSR) |
| 3 | RECEIVE DATA (RXD) | 4 | REQUEST TOSEND (RTS) |
| 5 | TRANSMIT DATA (TXD) | 6 | CLEAR TO SEND (CTS) |
| 7 | DATA TERMINAL READY (DTR) | 8 | RING INDICATOR (RI) |
| 9 | GROUND | 10 | NC |
| (11) | RS-422 TX+ RS-485 Data+ | (12) | RS-422 TX- RS-485 Data- |
| (13) | RS-422 RX+ | (14) | RS-422 RX- |

CN3 : External Switches and Indicators

| | PIN | DESCRIPTION | PIN | DESCRIPTION | |
|------------------|-----|-------------|-----|-------------|--------------|
| Power LED | 1 | +5V | 2 | Speaker + | Speaker |
| | 3 | GND | 4 | N/C | |
| ATX POWER BUTTON | 5 | BUTTON PIN1 | 6 | N/C | |
| | 7 | BUTTON PIN2 | 8 | Speaker - | |
| HDD LED | 9 | HDD LED + | 10 | Reset PIN1 | Reset Button |
| | 11 | HDD LED - | 12 | Reset PIN2 | |

KB1 : 5-pin Header Keyboard Connector

| PIN | DESCRIPTION |
|-----|----------------|
| 1 | KEYBOARD CLOCK |
| 2 | KEYBOARD DATA |
| 3 | N/C |
| 4 | GROUND |
| 5 | +5V |

CN4 : Backplane to CPU board Connector

| PIN | DESCRIPTION |
|-----|-------------|
| 1 | GND |
| 2 | ATX-ON |
| 3 | 5VSB |

USB2&USB3: USB Port Connector

| PIN | DESCRIPTION | PIN | DESCRIPTION |
|-----|-------------|-----|-------------|
| 1 | VCC | 2 | GROUND |
| 3 | DATA0- | 4 | DATA1+ |
| 5 | DATA0+ | 6 | DATA1- |
| 7 | GROUND | 8 | VCC |

FAN1 : Fan Connector

| PIN | DESCRIPTION |
|-----|-----------------|
| 1 | GROUND |
| 2 | +12V |
| 3 | Rotation Signal |

IR1: IrDA connector

| PIN | DESCRIPTION |
|-----|-------------|
| 1 | VCC |
| 2 | NC |
| 3 | IR-RX |
| 4 | Ground |
| 5 | IR-TX |
| 6 | NC |

CDIN1 : CD-IN

| PIN | DESCRIPTION |
|-----|-----------------|
| 1 | CD LEFT SIGNAL |
| 2 | GROUND |
| 3 | GROUND |
| 4 | CD RIGHT SIGNAL |

| DIO1: Digital I/O | | | |
|--------------------------|-------------|-----|-------------|
| PIN | DESCRIPTION | PIN | DESCRIPTION |
| 1 | GND | 2 | +5V |
| 3 | OUT0 | 4 | OUT1 |
| 5 | OUT2 | 6 | OUT3 |
| 7 | IN0 | 8 | IN1 |
| 9 | IN2 | 10 | IN3 |

| DVI1 : DVI Connector | | | |
|-----------------------------|-------------|---------|-------------|
| PIN NO. | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1 | DATA2- | 14 | Vcc |
| 2 | DATA2+ | 15 | GND |
| 3 | GND | 16 | HP_DET |
| 4 | NC | 17 | DATA0- |
| 5 | NC | 18 | DATA0+ |
| 6 | DDCCLK | 19 | GND |
| 7 | DDCDATA | 20 | NC |
| 8 | NC | 21 | NC |
| 9 | DATA1- | 22 | GND- |
| 10 | DATA1+ | 23 | CLK+ |
| 11 | GND | 24 | CLK- |
| 12 | NC | 25 | GND |
| 13 | NC | | |

| CN1: backlight inverter connector | |
|--|-------------|
| PIN | DESCRIPTION |
| 1 | NC |
| 2 | GROUND |
| 3 | BKL_POWER |
| 4 | GROUND |
| 5 | VCC |

| J3:External Power Connector | |
|------------------------------------|-------------|
| PIN | DESCRIPTION |
| 1 | +5V |
| 2 | GROUND |
| 3 | GROUND |
| 4 | +12V |

| LVDS1 : LVDS Connector | | | |
|-------------------------------|--------------------|----------------|--------------------|
| PIN NO. | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1 | GND | 16 | LVDSB_Y3- |
| 2 | GND | 17 | LVDSB_CLK+ |
| 3 | LVDS_Y3+ | 18 | LVDSB_CLK- |
| 4 | LVDS_Y3- | 19 | LVDSB_Y2+ |
| 5 | LVDS_CLK+ | 20 | LVDSB_Y2- |
| 6 | LVDS_CLK- | 21 | LVDSB_Y1+ |
| 7 | LVDS_Y2+ | 22 | LVDSB_Y1- |
| 8 | LVDS_Y2- | 23 | LVDSB_Y0+ |
| 9 | LVDS_Y1+ | 24 | LVDSB_Y0- |
| 10 | LVDS_Y1- | 25 | GND |
| 11 | LVDS_Y0+ | 26 | GND |
| 12 | LVDS_Y0- | 27 | VCC_LCD |
| 13 | GND | 28 | VCC_LCD |
| 14 | GND | 29 | VCC_LCD |
| 15 | LVDSB_Y3+ | 30 | VCC_LCD |

| AUDIO1 | | | |
|----------------|--------------------|----------------|--------------------|
| PIN NO. | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1 | SPEAK(L) | 2 | SPEEAK(R) |
| 3 | GND | 4 | GND |
| 5 | LINE_OUT(L) | 6 | LINE_OUT(R) |
| 7 | LINEIN(L) | 8 | LINEIN(R) |
| 9 | GND | 10 | GND |
| 11 | MIC | 12 | GND |

Board Layout: Jumper and Connector Locations

