Half-size PCISA Intel® Pentium® M or Celeron® M processors with a 400MHz FSB and comes with LCD, CRT, dual LAN,dual-display support, USB2.0 and audio

PCISA-6770E2-RS
Quick Installation Guide
Version 3.0

Aug. 04, 2008

Package Contents

PCISA-6770E2-RS package includes the following items:

- 1 x PCISA-6770E2-RS single board computer
- 1 x ATA66/100 HDD cable
- 1 x KB/MS Y cable
- 1 x RS232/LPT cable
- 1 x RS232/422/485 cable
- 1 x USB cable
- 1 x Audio cable
- 1 x mini jumper pack
- 1 x Utility CD
- 1 x QIG (Quick Installation Guide)

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Specifications

- CPU: Intel® Pentium® M or Celeron® M processors with a 400MHz FSB
- System Chipset: Intel® 852GM+ICH4
- BIOS: AMI BIOS Label
- System memory: One 184-pin 1GB (max.) 200MHz or 266MHz DDR SDRAM DIMM supported
- Ethernet: Dual 10/100Mbps Intel® 82562ET/82551ER Ethernet chipset
- 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 on rear,4 by pin header)
  1 x ATA-100
  1 x ATA-33 IDE channel
  1 x PS/2 keyboard/mouse
  1 x 5-pin header for keyboard
  1 x FDD

  Super I/O: W83627HG

  Digital I/O:8-bit digital I/O, 4-bit output / 4-bit input
- Display: CRT integrate in Intel® 852GM

  18/24-bit dual-channel LVDS
- Audio: Realtek ALC655 AC'97 codec
- Power supply:5V/12V, AT/ATX power support
- Power Consumption:

  5V@3.5A, 12V @1.9A running a 1.7GHz 2MB L2 cache Intel® Pentium® M processor with 266 MHz 512MB DDR DIMM
- Temperature: 0 ~ 60°C(32 ~ 140°F)
- Watchdog timer: Software programable 1-255 sec. by super I/O

Ordering Information

PCISA-6770E2-RS-R30

PCISA Intel® Pentium® M/ Celeron® M CPU Card with VGA/LVDS, Dual LAN,USB2.0 and Audio

PCISA-6770E2-RS-600-R30

PCISA Intel® Celeron® M 600MHz 512K Cache CPU Card with VGA/LVDS ,Dual LAN,USB2.0 and Audio

PCISA-6770E2-RS-1GZ-R30

PCISA Intel® Celeron® M 1GHz Zero Cache CPU Card with VGA/LVDS ,Dual LAN,USB2.0 and Audio

32200-000058-RS: 2.0mm pitch FDD cable

32100-133600-RS: 2.0mm to 2.54mm pitch front panel cable

32100-126600-RS: 2.0mm to 2.54mm pitch USB cable

CF-518-RS: CPU cooler

CF-479B-RS: CPU cooler

Jumpers setting and Connectors

Table of Jumpers and Connectors	
LABEL	**FUNCTION**
J_CMOS1	CMOS state setting
JP1	COM2 Port Mode setting
JCF1	Configure CF Card type
J_VLVDS1	LVDS Voltage Selection
JP2	LVDS Panel Resolution Selection
KB_MS1	PS/2 Mouse & Keyboard Connector
KB1	5-pin Header Keyboard Connector
LAN1/LAN2	RJ45 LAN Connector
VGA1	VGA 15-pin Female Connector
CPU_FAN1	CPU Fan Connectors
ATXCTL1	Backplane to Main Board ATX Power Control Connector
F_PANEL1	PWR & RST Buttons and Indicators
USB_C4	USB Port Connectors
IDE1	IDE Connector 1
IDE2	IDE Connector 2
FDD1	FDD Connector
LPT1	Parallel Port Connector
COM1	Internal Serial Port 10-pin Connector
COM2	Internal Serial Port 14-pin Connector
DIO1	Digital I/O Connector
INVERTER1	Panel Backlight +12V Power Source
LVDS1	Dual Link LVDS
USB01 USB23	Internal 4 Port USB Connector
J_AUDIO1	AC'97 Connector
CD_IN1	CD-IN Input Connector
PWR1	Power Source Connector
IR1	IrDA Infrared Interface Connector
DVI1(optional)	Digital Visual Interface Connector

J_CMOS1 : Clear CMOS Setup	
J_CMOS1	DESCRIPTION
Short 1-2	Keep CMOS Setup (Default)
Short 2-3	Clear CMOS Setup

JCF1: configure CF Card type	
JCF1	DESCRIPTION
Open	Slave (Default)
Short 1-2	Master

J_VLVDS1:LVDS Voltage election	
J_VLVDS1	DESCRIPTION
1-2	+3.3V LVDS (Default)
2-3	+5V LVDS

JP1:Configure COM2 Mode	
JP1	DESCRIPTION
1-2	RS-232 (Default)
3-4	RS-422
5-6	RS-485

ATXCTL1 : Backplane to Mainboard Connector	
PIN	**DESCRIPTION**
1	GND
2	PS_ON#
3	5VSB

CPU_FAN1:CPU Fan Connector	
PIN	DESCRIPTION
1	SYSFANIN
2	+12V
3	GND

CD_IN1: Audio CD-IN Connector	
PIN	**DESCRIPTION**
1	CD-IN L
2	GND_AUDIO
3	GND_AUDIO
4	CD-IN R

IR1: IrDA connector	
PIN	**DESCRIPTION**
1	VCC
2	NC
3	IR-RX
4	GND
5	IR-TX
6	CIRRX

JP2 : LVDS Panel Resolution Selection	
JP2	**DESCRIPTION**
OFF	640 X 480 (18bit) (Default)
1-2	800 X 600 (18bit)
3-4	1024 X 768 (24bit)
1-2 & 3-4	1280 X 1024 (36bit)
5-6	1400 X 1050 (36bit)
1-2 & 5-6	1024 X 768 (18bit)
3-4 & 5-6	1600 X 1200 (48bit)
1-2 & 3-4 &5-6	1280 X 1024 (48bit)
7-8	800 X 600 (24bit)
1-2 & 7-8	1366 X 768 (24bit)
3-4 & 7-8	1024 X 768 (36bit)
1-2 & 3-4 & 7-8	1400 X 1050 (48bit)
5-6 & 7-8	1600 X 1200 (36bit)
1-2 & 5-6 & 7-8	800 X 480 (18bit)
3-4 & 5-6 & 7-8	800 X 480 (24bit)
1-2 & 3-4 & 5-6 & 7-8	1366 X 768 (48bit)

F_PANEL1:Front Panel Jumper					
	PIN	**DESCRIPTION**	**PIN**	**DESCRIPTION**	
PWRBTN	1	PWR_BTN+	2	PWR_LED+	PWRLED
	3	PWR_BTN-	4	PWR_LED-	
HDDLED	5	HD_LED+	6	RESET+	RESET
	7	HD_LED-	8	RESET-	

KB1:5-pin Header Keyboard Connector	
Pin	**DESCRIPTION**
1	KEYBOARD CLOCK
2	KEYBOARD DATA
3	N/C
4	GND
5	VCC

USB01 & USB23 : Internal USB Connector			
PIN	**DESCRIPTION**	**PIN**	**DESCRIPTION**
1	VCC	2	GND
3	DATA-	4	DATA+
5	DATA+	6	DATA-
7	GND	8	VCC

COM1 : 10PIN Serial Port Connector			
PIN	**DESCRIPTION**	**PIN**	**DESCRIPTION**
1	DCD#	2	DSR#
3	RXD	4	RTS#
5	TXD	6	CTS#
7	DTR#	8	RI#
9	GND	10	NC

COM2 : 14-Pin Serial Port Connector			
PIN	**DESCRIPTION**	**PIN**	**DESCRIPTION**
1	DCD#	2	DSR#
3	RXD	4	RTS#
5	TXD	6	CTS#
7	DTR#	8	RI#
9	GND	10	NC
11	TX+	12	TX-
13	RX+	14	RX-

PWR1 : ATX POWER IN	
PIN NO.	**DESCRIPTION**
1	VCC
2	GND
3	GND
4	+12V

INVERTER1 : 5-pin Header Inverter Connector	
PIN	**DESCRIPTION**
1	LCD_BKLTCTL
2	GROUND
3	+12V
4	GROUND
5	BACKLIGHT ENABLE

LVDS1 : LVDS LCD Connector			
PIN	**DESCRIPTION**	**PIN**	**DESCRIPTION**
1	GND	2	GND
3	LVDSA_Y0+	4	LVDSA_Y0-
5	LVDSA_Y1+	6	LVDSA_Y1-
7	LVDSA_Y2+	8	LVDSA_Y2-
9	LVDSA_CLK+	10	LVDSA_CLK-
11	LVDSA_Y3+	12	LVDSA_Y3-
13	GND	14	GND
15	LVDSB_Y0+	16	LVDSB_Y0-
17	LVDSB_Y1+	18	LVDSB_Y1-
19	LVDSB_Y2+	20	LVDSB_Y2-
21	LVDSB_CLK+	22	LVDSB_CLK-
23	LVDSB_Y3+	24	LVDSB_Y3-
25	GND	26	GND
27	LVDS_VCC	28	LVDS_VCC
29	LVDS_VCC	30	LVDS_VCC

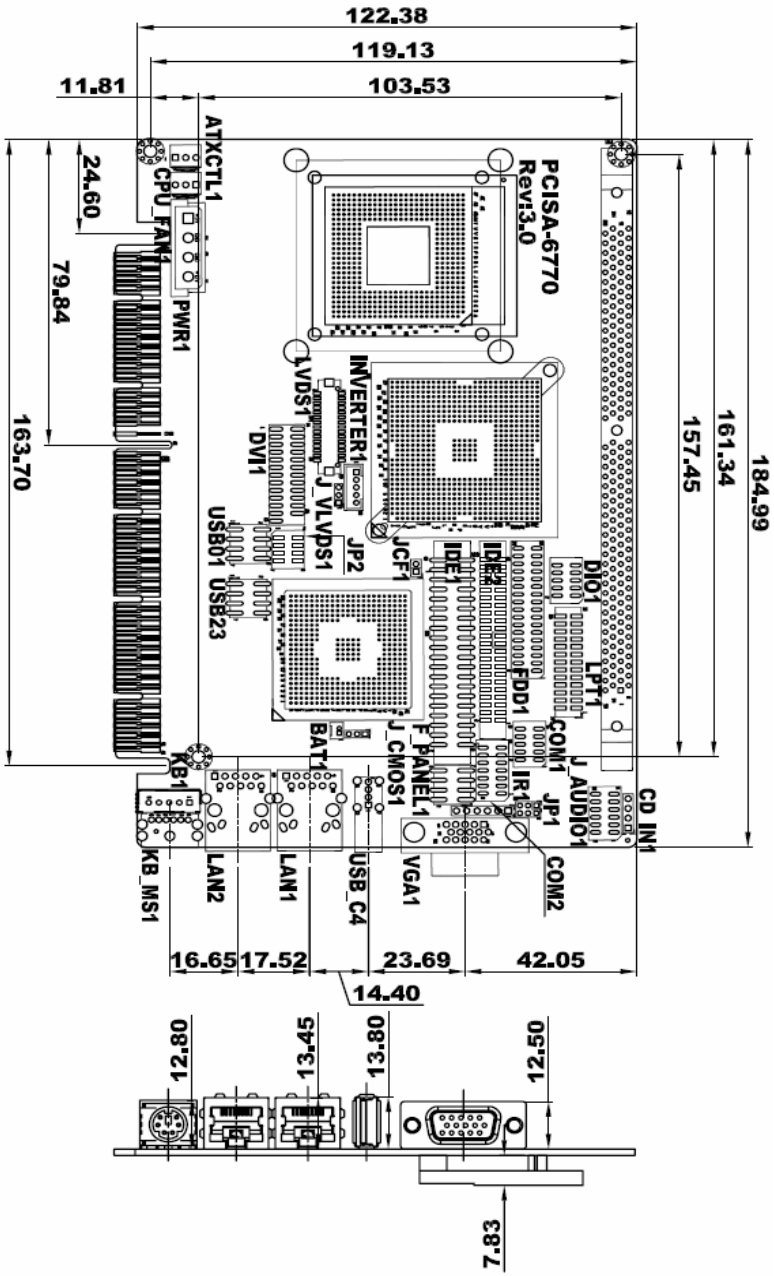
J_AUDIO1: AC'97 Connector			
PIN	**DESCRIPTION**	**PIN**	**DESCRIPTION**
1	SPK L	2	SPK R
3	GND_AUDIO	4	GND_AUDIO
5	LINE_OUTL	6	LINE_OUTR
7	LINEIN L	8	LINEIN_R
9	GND_AUDIO	10	GND_AUDIO
11	MICIN	12	GND_AUDIO

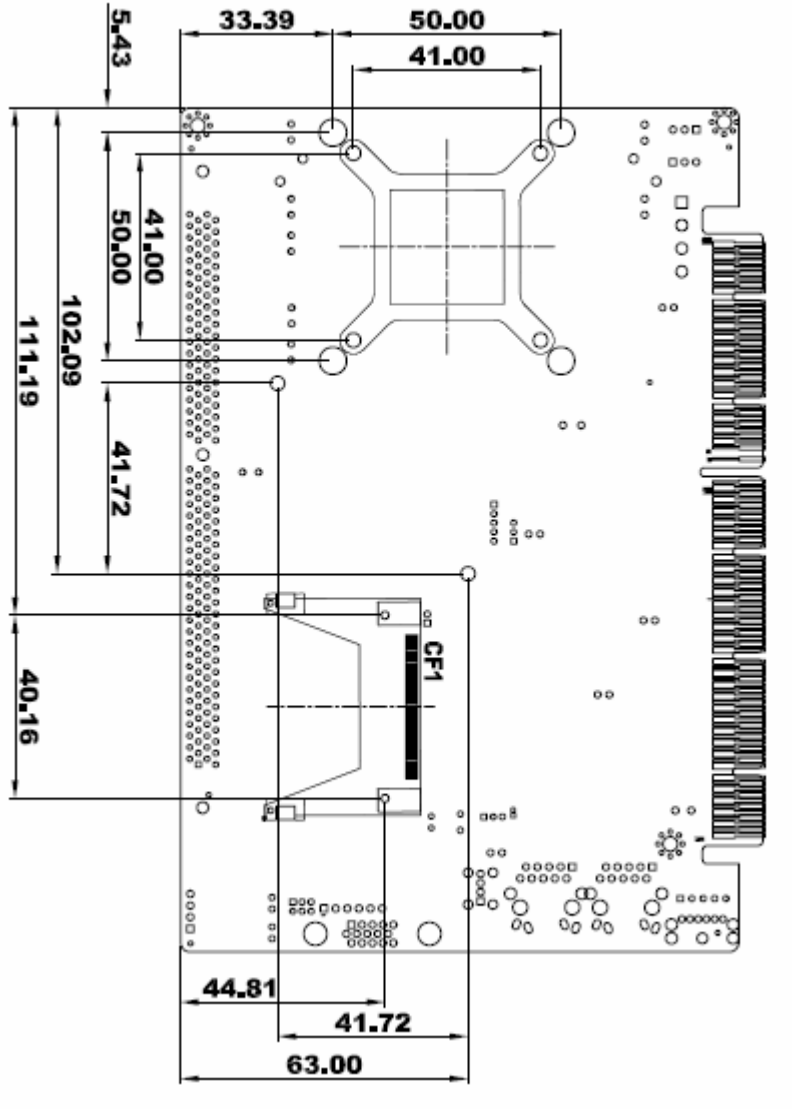
DIO1 : Digital Input / Output Connector			
PIN	**DESCRIPTION**	**PIN**	**DESCRIPTION**
1	Ground	2	VCC
3	Output 3	4	Output 2
5	Output 1	6	Output 0
7	Input 3	8	Input 2
9	Input 1	10	Input 0

DVI1 : DVI Connector (Optional)			
DVI Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	Data 2-	14	+5V Power
2	Data 2+	15	GND
3	GND	16	Hot Plug Detect.
4	N/C	17	Data 0-
5	N/C	18	Data 0+
6	DDC Clock	19	GND
7	DDC Data	20	N/C
8	N/C	21	N/C
9	Data 1-	22	GND
10	Data 1+	23	Clock +
11	GND	24	Clock -
12	N/C	25	GND

LPT1 : Parallel Port Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	STROBE#	14	AUTO FORM FEED #
2	DATA0	15	ERROR#
3	DATA1	16	INITIALIZE#
4	DATA2	17	PRINTER SELECT LN#
5	DATA3	18	GND
6	DATA4	19	GND
7	DATA5	20	GND
8	DATA6	21	GND
9	DATA7	22	GND
10	ACKNOWLEDGE#	23	GND
11	BUSY	24	GND
12	PAPER EMPTY	25	GND
13	PRINTER SELECT		

Board Layout: Jumper and Connector Locations




5.43
33.39
50.00
41.00
50.00
41.00
102.09
111.19
41.72
40.16
CF1
44.81
41.72
63.00