

**PICMG 1.3 LGA 775 Intel® Core 2 Duo™ Pentium® D/4 CPU  
Card with VGA, Dual PCIe GbE and SATAII**

# **PCI-E-9450**

## **Quick Installation Guide**

### **Version 3.0**

Aug. 01, 2007

### **Package Contents**

PCI-E-9450 package includes the following items:

- 1 x PCI-E-9450 single board computer
- 1 x mini jumper pack
- 1 x ATA 66/100 flat cable
- 4 x SATA cable
- 2 x SATA power cable
- 1 x KB/MS Y cable
- 1 x Dual RS-232 cable
- 1 x USB cable
- 1 x Utility CD
- 1 x QIG (quick installation guide)



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## Specifications

- CPU: LGA 775 Intel® Core 2 Duo / Pentium® D/4/Celeron® D with 533/800/1066 MHz FSB
- System Chipset: Intel® 945G+ ICH7R
- BIOS: AMI Flash BIOS  
SMIBIOS(DMI) compliant  
Console redirection function support  
PXE(Pre-Boot Execution Environment) support  
USB booting support
- System memory:  
4 x 240-Pin dual channel DDRII 400/533/667 MHz up to 4GB
- Ethernet: Dual Broadcom BCM5787 PCIe GbE chipsets
- I/O Interface  
2 x RS-232  
1 x LPT  
7 x USB 2.0  
4 x SATA II with Raid 0,1,5 and 10 supported  
1 x IDE  
1 x FDD  
1 x PS/2 keyboard & mouse
- Digital I/O: 8-bit digital I/O, 4 input/4 output
- Support audio kit :  
5.1 Channel AC'97 Audio kit with Realtek ALC655  
7.1 Channel HD Audio kit with Realtek ALC883
- Display: Integrated with DB-15 VGA output
- Watchdog Timer: Software programmable supports 1~255 sec. system reset
- Power Supply  
4 pin ATX 12V, 24 pin ATX Power on PICMG1.3 backplane
- Power Consumption:  
12V@9A, 5V@2.6A, 3.3V@6.3A, 5Vsb@0.93A, -12V@0.1A  
(Pentium D 3.73GHz/1066MHz CPU with 4GB DDR2-667MHz)
- Temperature: 0 ~ 60°C( 32 ~ 140°F)
- Humidity:operation: 5% ~ 95% non-condensing

- Dimension: 388mm x 122mm
- Weight: GW: 1.2 Kg

## Ordering Information

### PCIE-9450-R30

PICMG 1.3 LGA 775 533/800/1066 MHz FSB CPU Card with VGA, PCIe GbE, SATA II and USB2.0

AC-KIT08R-R10: 5.1 Channel AC'97 Audio kit with Realtek ALC655

AC-KIT883HD-R10: 7.1 Channel HD Audio kit with Realtek ALC883

supports dual audio streams

CF-520-RS: CPU Cooler

CF-775A-RS: CPU Cooler

SDVO-100VGA-R10: PCIe x 16 VGA Output SDVO Card supports dual display (support IEI CPU board only)

SDVO-100DVI-R10: PCIe x 16 DVI Output SDVO Card supports dual display (support IEI CPU board only)

19800-000049-RS: LPT cable

32200-000017-RS: FDD cable

## Jumpers setting and Connectors

|            |            |
|------------|------------|
| <b>JP1</b> | CMOS       |
| 1-2        | NORMAL     |
| 2-3        | Clear CMOS |

| <b>USB0</b> |             |     |             |
|-------------|-------------|-----|-------------|
| Pin         | Description | Pin | Description |
| 1           | PWR(+5V)    | 2   | GND         |
| 3           | USBPA-      | 4   | USBPB+      |
| 5           | USBPA+      | 6   | USBPB-      |
| 7           | GND         | 8   | PWR(+5V)    |

| <b>CPU12V1 Power connector</b> |             |     |             |
|--------------------------------|-------------|-----|-------------|
| Pin                            | Description | Pin | Description |
| 1                              | GND         | 2   | GND         |
| 3                              | +12V        | 4   | +12V        |

| <b>FAN1: Fan Connector</b> |             |
|----------------------------|-------------|
| Pin                        | Description |
| 1                          | GND         |
| 2                          | +12V        |
| 3                          | Sensor      |

| <b>IR1: IrDA connector</b> |             |
|----------------------------|-------------|
| Pin                        | Description |
| 1                          | PWR(+5V)    |
| 2                          | NC          |
| 3                          | RX          |
| 4                          | GND         |
| 5                          | TX          |

| <b>DIO1: Digital I/O</b> |             |     |             |
|--------------------------|-------------|-----|-------------|
| Pin                      | Description | Pin | Description |
| 1                        | GND         | 2   | +5V         |
| 3                        | XOUT0       | 4   | XOUT1       |
| 5                        | XOUT2       | 6   | XOUT3       |
| 7                        | XIN0        | 8   | XIN1        |
| 9                        | XIN2        | 10  | XIN3        |

| <b>SDVO1:3Pin SDVO Control Signal Pin Header</b> |             |
|--------------------------------------------------|-------------|
| Pin                                              | Description |
| 1                                                | EXP_EN      |
| 2                                                | SDVO_CLK    |
| 3                                                | SDVO_DAT    |

| <b>CN2: KB</b> |             |
|----------------|-------------|
| Pin            | Description |
| 1              | KB_CLK      |
| 2              | KB_DATA     |
| 3              | NC          |
| 4              | GND         |
| 5              | KB_PWR      |

| <b>COM1/COM2: RS232</b> |             |     |             |
|-------------------------|-------------|-----|-------------|
| Pin                     | Description | Pin | Description |
| 1                       | DCD-        | 6   | DSR-        |
| 2                       | SIN         | 7   | RTS-        |
| 3                       | SOUT        | 8   | CTS-        |
| 4                       | DTR-        | 9   | RI          |
| 5                       | GND         | 10  | GND         |

| <b>AUDIO1: Audio Connector for Audio Module</b> |             |     |             |
|-------------------------------------------------|-------------|-----|-------------|
| Pin                                             | Description | Pin | Description |
| 1                                               | AC_SYNC     | 2   | AC_CLK      |
| 3                                               | AC_SDOUT    | 4   | PC_BEEP     |
| 5                                               | AC_SDIN     | 6   | AC_RST-     |
| 7                                               | PWR (+5V)   | 8   | GND         |
| 9                                               | PWR (+12V)  | 10  | GND         |

| <b>CPU_FAN: Fan Connector</b> |             |
|-------------------------------|-------------|
| Pin                           | Description |
| 1                             | GND         |
| 2                             | +12V        |
| 3                             | Sensor      |
| 4                             | Control     |

| <b>LPT1:26Pin Parallel Port Connector</b> |             |     |             |
|-------------------------------------------|-------------|-----|-------------|
| Pin                                       | Description | Pin | Description |
| 1                                         | STB-        | 14  | AFD-        |
| 2                                         | PDR0        | 15  | ERR-        |
| 3                                         | PDR1        | 16  | INITP-      |
| 4                                         | PDR2        | 17  | SLIN-       |
| 5                                         | PDR3        | 18  | GND         |
| 6                                         | PDR4        | 19  | GND         |
| 7                                         | PDR5        | 20  | GND         |
| 8                                         | PDR6        | 21  | GND         |
| 9                                         | PDR7        | 22  | GND         |
| 10                                        | ACK         | 23  | GND         |
| 11                                        | BUSY        | 24  | GND         |
| 12                                        | PE          | 25  | GND         |
| 13                                        | SLCT        | 26  | GND         |

| <b>CN1: External Switches and indicators Panel</b> |             |     |             |
|----------------------------------------------------|-------------|-----|-------------|
| Pin                                                | Description | Pin | Description |
| 1                                                  | PWR LED +   | 2   | PC_BEEP     |
| 3                                                  | PWR LED -   | 4   | GND         |
| 5                                                  | PWR ON +    | 6   | NC          |
| 7                                                  | PWR ON -    | 8   | BEEP_PWR    |
| 9                                                  | HDD LED +   | 10  | Reset +     |
| 11                                                 | HDD LED -   | 12  | Reset -     |

| <b>FDD1:34Pin FDD Connector</b> |             |     |             |
|---------------------------------|-------------|-----|-------------|
| Pin                             | Description | Pin | Description |
| 1                               | GND         | 2   | REDWC-      |
| 3                               | GND         | 4   | NC          |
| 5                               | NC          | 6   | NC          |
| 7                               | GND         | 8   | INDEX-      |
| 9                               | GND         | 10  | MOTEA-      |
| 11                              | GND         | 12  | NC          |
| 13                              | GND         | 14  | DRVSA-      |
| 15                              | GND         | 16  | NC          |
| 17                              | GND         | 18  | DIR-        |
| 19                              | GND         | 20  | STEP-       |
| 21                              | GND         | 22  | WDATA-      |
| 23                              | GND         | 24  | WGATE-      |
| 25                              | GND         | 26  | TRK0-       |
| 27                              | GND         | 28  | WPT-        |
| 29                              | GND         | 30  | RDATA-      |
| 31                              | GND         | 32  | SIDE-       |
| 33                              | GND         | 34  | DSKCHG-     |

| <b>IDE1:40Pin IDE Connector</b> |             |     |             |
|---------------------------------|-------------|-----|-------------|
| Pin                             | Description | Pin | Description |
| 1                               | IDERST-     | 2   | GND         |
| 3                               | PD7         | 4   | PD8         |
| 5                               | PD6         | 6   | PD9         |
| 7                               | PD5         | 8   | PD10        |
| 9                               | PD4         | 10  | PD11        |
| 11                              | PD3         | 12  | PD12        |
| 13                              | PD2         | 14  | PD13        |
| 15                              | PD1         | 16  | PD14        |
| 17                              | PD0         | 18  | PD15        |
| 19                              | GND         | 20  | NC          |
| 21                              | PDREQ       | 22  | GND         |
| 23                              | PDIOW-      | 24  | GND         |
| 25                              | PDIOR-      | 26  | GND         |
| 27                              | PDIORDY     | 28  | GND         |
| 29                              | PDAK-       | 30  | GND         |
| 31                              | IDEIRQ      | 32  | NC          |
| 33                              | PDA1        | 34  | P66DET      |
| 35                              | PDA0        | 36  | PDA2        |
| 37                              | PDCS-       | 38  | PDCS3-      |
| 39                              | IDEACT-     | 40  | GND         |

# Board Layout: Jumper and Connector Locations



