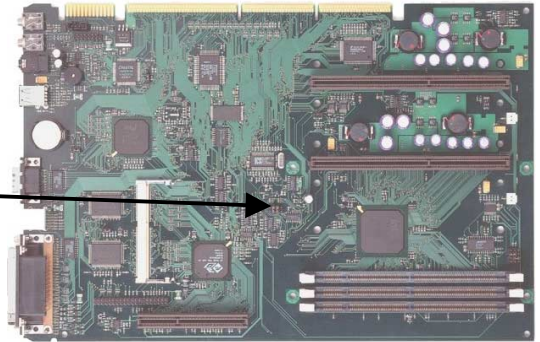


CPU

The Trimond TC440 NLX dual CPU motherboard uses Intel's 440BX chipset, which is optimised for Pentium®II **100MHz Front Side Bus** processors, but which also supports 66MHz Pentium®II CPUs. Celeron support is achieved by implementing an alternative microcode from the BIOS update disk. Please contact Mitsubishi if you require assistance with this. Processor core multipliers can be set using jumper block **J1-J4**. Core voltage is set by the processor. Location of J1 shown below.

Please note, if two CPUs are fitted, they must be identical. If only one CPU is fitted (in either socket), please ensure that you have inserted a **terminator card** in the unused socket.

J1-J4



CPU speed jumper block J1-J4 settings

Ratio	J1	J2	J3	J4	66 / 100 MHz frequency local bus
3	on	on	off	on	200 / ---
3.5	on	off	off	on	233 / 350
4	on	on	on	off	266 / 400
4.5	on	off	on	off	300 / 450
5	on	on	off	off	333 / 500
5.5	on	off	off	off	366 / 550

RAM

Three DIMM sockets accept 64-bit wide (72-bit with parity/ECC support) unbuffered **PC100 SDRAM** modules (or standard 66MHz SDRAM for 66MHz FSB Pentium®II CPUs) with **SPD** (serial presence detect). Please note that EDO memory is **NOT** supported.

Populate DIMM sockets in the following order: **MM1**, MM2, MM3.

Supported sizes: **16MB, 32MB, 64MB, 128MB, 256MB**.

Approved vendors: Please see the current list at <http://www.trimond.com/shared/reference.asp>.

NLX RISER (if supplied)

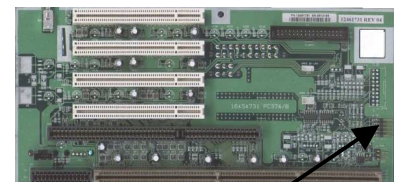
Keyed connectors for floppy drive, primary and secondary IDE channels are clearly marked.

JP11 provides the pin-outs for the power-switch, front panel LEDs and PC-speaker, as follows:

Pins	Designation
1 & 2	Speaker
3 & 4	HD activity LED ¹
5 & 6	Power LED ²
7 & 8	ON/OFF switch

¹ Pin 3 - LED cathode, pin 4 - VCC.

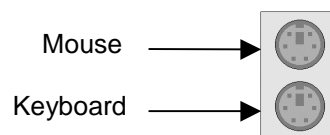
² Pin 5 - yellow cathode, pin 6 - green cathode. Bi-directional LED supported.



JP11

KEYBOARD & MOUSE

Orientation as shown.



PSU

Trimond motherboards are designed to be connected to a **soft-switch PSU**, with 5V standby. If the 5V standby current is insufficient, the PSU may deregulate and possibly damage the motherboard. Ensure that at least **30mA** is available to the 5V standby output.

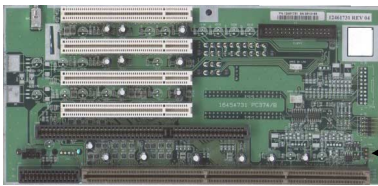
If you wish to use a **hard-switch PSU**, it is necessary to change a flag in the manufacturer settings of the BIOS and provide current to the motherboard 5V standby connector. Please contact the Motherboard Division for full instructions.

The power connector is **J5**, located on the rear side of the NLX riser.

COOLING

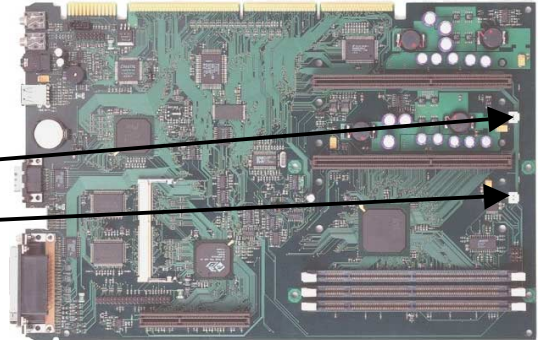
Two CPU fan connectors are provided, **PL14** and **PL9**. Both are three-pin system tach-fan connectors. Variable speed is supported by ACPI-aware operating systems e.g. Windows 98.

JP9 on the riser provides an additional fan connector.



PL14

PL9



PHOENIX BIOS & CMOS

BIOS updates are available from our web site. Please see *Documentation & Drivers* below for further details.

The port 80 codes for Phoenix BIOS 4.0 Rel 6.1 can be obtained from our web site:

<http://www.trimond.com/shared/reference.asp>

CMOS may be cleared using **PL11**. Remove AC mains. Move jumper from pins 1-2 (default) to 2-3 for 3 seconds. Return jumper to original position.

PL11

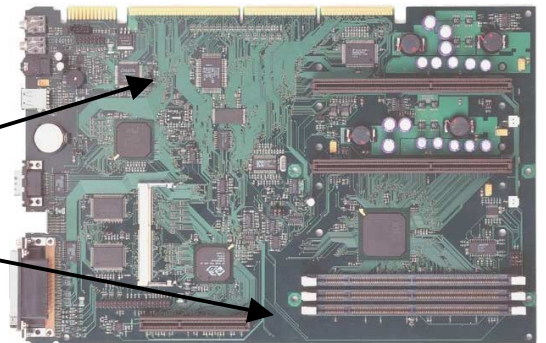


VIDEO & AUDIO JUMPERS

Jumpers to selectively disable onboard audio and video are as follows:

ESS audio enable (1-2) / disable (2-3) - PL16

ATI video enable (1-2) / disable (2-3) - PL4



DOCUMENTATION & DRIVERS

Supporting documentation, drivers and BIOS updates are available from our web site as follows:

<http://www.trimond.com>

- Click on the "Support" left menu item.
- Click on "Private Pages".
- Login using the following user-id:

Name: **evaluation** (not case-sensitive)

Password: **motherboard** (not case-sensitive)

An online **problem report** form is available from the evaluation support page.