TR100

Intel® 815E Motherboard

USER'S MANUAL

Intel® Celeron®, Pentium III®, Tualatin® Processor Motherboard
Rev. 1.0

Revision History

Revision	Date	Description
1.0		Initial release of TR100 motherboard user's manual

Item Checklist

1 TR100 Motherboard

1 Floppy Cable

1 ATA Cable 66/100

1 I/O Shield

1 CD for Motherboard Driver

TR100 User Manual

Quick Installation Guide

Safety Instructions

Please follow some precautions when operating your computer.

1. Always unplug the power cord when inserting any add-on card or module inside the system.

2. Use a grounded wrist strap before handling computer components. If one is not available, touch both of your hands to a safely grounded object or to a metal object.

3. Place components on a level grounded antistatic pad or on the packaging that came with the components whenever the components are separated from the system.

4. Keep equipment away from moisture and humidity.

5. Keep this User's Manual for future reference.

Table of Contents

Chapter 1 Introduction

Motherboard Specifications

Form Factor:
- Micro ATX Form Factor
- Size 9.6" x 8.9", Four Layer Board

Processor**:**
- Support Intel Celeron® / Pentium III® / Tualatin®.
- Intel Socket-370 mechanism for universal motherboard.
- 66/100/133MHz Front Side Bus frequency.

Cache Memory:
- L1 and L2 cache are all integrated in the processor.

System Memory:
- 2 DIMM Sockets support up to 512MB memory capacity.
- Support PC100/PC133 SDRAM DIMM module.
- Un-buffered, Non-ECC DIMM only.

Core Logic Chipset:
- Intel 815E B-step GMCH (Graphics and Memory Controller Hub).
- ICH2X (I/O Controller Hub).

PCI bus:
- PCI 2.2 compliant
- PME# and 3.3Vaux signals to support power management.

Audio:
- AC'97 interface in ICH2X.
- AC'97 CODEC ADI AD1885.
- Compliant with AC'97 revision 2.1 specification.
- 3 Audio jacks (Line out, Line in, Mic In).
- 2 Audio headers (CD In, Aux In).

On board EIDE:

- 2 Bus Master IDE Ports (Up to 4 IDE devices). Support ATA 33/66/100.

On board I/O:

- LPC revision 1.0 super I/O controller SMSC LPC47M192.
- 1 Floppy connector.
- Stacked PS/2 keyboard & mouse connector.
- 4 USB ports, Dual stacked ports at back and 2 at front header (Front is Option).
- 1 Parallel port (ECP/EPP).
- 2 Serial ports.
- Hardware monitor capability by SMSC LPC47M192.
- 3 Fan headers.
- Front Side Line Out header.

Integrated Graphics:

- Integrated full 2D/3D/DirectX acceleration.
- Integrated 230MHz RAMDAC and hardware motion compensation (30 frame/sec).
- 1 Analog VGA output port.
- External (2X/4X) AGP slot (AGP specification 2.0 compatible).

Additional Features:

- Wake-on-LAN function.
- Wake-on-Ring function.
- Keyboard/Mouse/USB wake up function.
- Supports S1, S3, S4 and S5 ACPI states.

Expansion Slots:

- 1 AGP 2X/4X slot. (shared with AIMM)
- 3 PCI slots.

TR100 Motherboard Layout
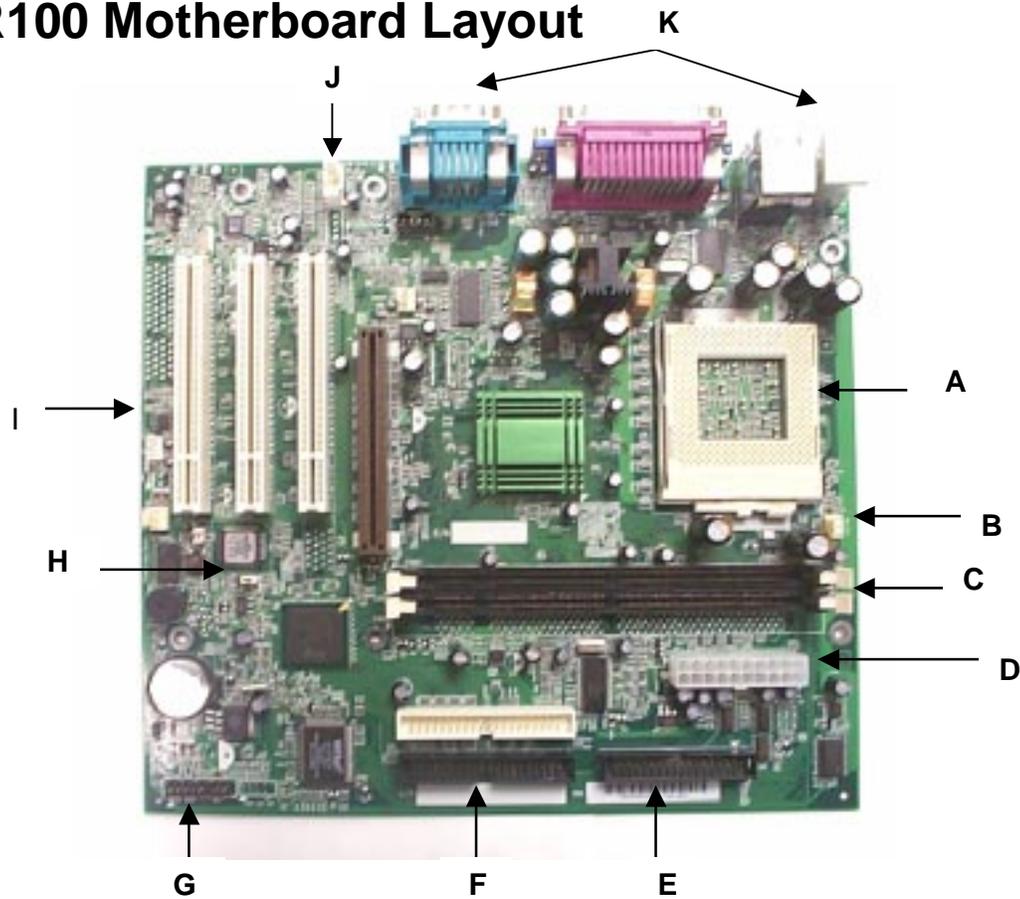
A	CPU Socket	G	Front Panel Connector
B	CPU Fan Socket	H	Jumper Connector
C	Memory Sockets	I	Expansion Slots
D	Power Supply Connector	J	Audio Connector
E	Floppy Connector	K	Back Panel Connectors
F	IDE Connectors		

Front Panel Connector Pin Definition

Pin	Signal Name	I/O	Description
1	HD_PWR	O	Hard Disk LED pull-up to VCC
2	HDR_BLNK_GRN	O	Front panel Green LED signal
3	HDA*	O	Hard Disk Active LED signal
4	HDR_BLNK_YEL	O	Front panel Yellow LED signal
5	GND	-	Ground
6	FPBUT_IN	I	Front panel On/Off button signal
7	FP_RESET*	I	Front panel Reset button signal
8	GND	-	Ground
9	VCC	O	
10	FPSLP*	I	Front panel sleep button signal
11	IRRX	I	IRDA serial input
12	GND	-	Ground
13	GND	-	Ground
14	KEY	-	KEY
15	IRTX	O	IRDA serial output
16	VCC	O	
17	NC	-	not connected
18	NC	-	not connected

Chapter 2 Hardware Installation Process

Installing the Central Process Unit (CPU)

CPU Installation

1. Unlock the CPU socket by pulling the lever up to a 90-degree angle.
2. Position the CPU above the socket such that the **marked** corner (pin1) matches the corner near the base of the lever.
3. Place the CPU into the socket. If the CPU is unable to insert properly, check its orientation and attempt to re-install.
   Warning! Do not force the CPU into the socket. Doing so will prompt bending of the pins and create damage to the CPU.
4. Close the socket by lowering the lever and locking the lever in place.

90 degree angle

Installing the Central Process Unit (CPU)   *cont.*

CPU Heat Sink Installation

1. Read the related CPU heat sink user's manual for more detailed installation procedures.
2. Connect CPU fan power cable into the CPU fan connector on the motherboard.
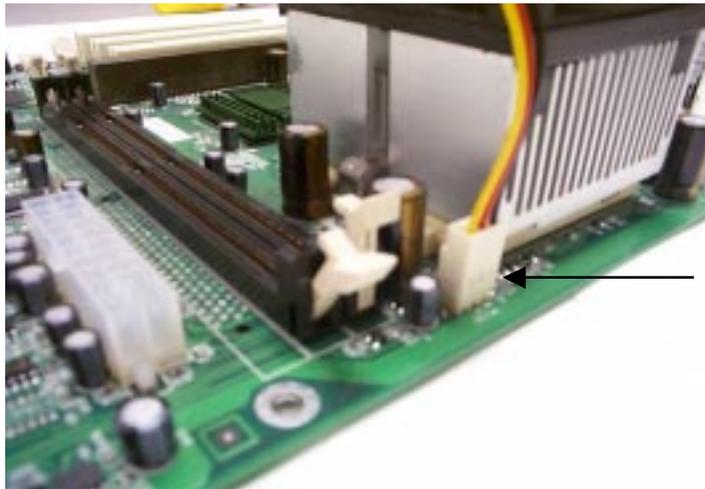
CPU Fan Connector

Installing Memory Modules

1. Push the white retaining clips on each of the memory socket outwards.
2. Match the notches on the contact edge of the memory module to the ridges in the memory socket.
3. Insert the memory module vertically into place. When properly inserted, the white retaining clips will move inward to lock in the module.
4. Repeat installation process when adding additional modules.

← **Retaining Clip**

Total Memory Sizes With SDRAM DIMM

Devices used on DIMM	1 DIMMx64/x72	2 DIMMsx64/x72
64 Mbit (2Mx8x4 banks)	128 MBytes	256 MBytes
64 Mbit (1Mx16x4 banks)	64 MBytes	128 MBytes
128 Mbit (4Mx8x4 banks)	256 MBytes	512 MBytes
128 Mbit (2Mx16x4 banks)	128 MBytes	256 MBytes
256 Mbit (4Mx16x4 banks)	256 MBytes	512 MBytes

Connecting IDE and Floppy Disk Cables

1. **Connecting the floppy disk ribbon cable into the motherboard.** The side of the cable with the red stripe needs to be inserted into the <u>Pin1</u> side of the floppy disk connector.

2. **Connecting the IDE ribbon cable into the motherboard.** The side of the cable with the red stripe should be inserted into <u>Pin1</u> side of the IDE connector.

Floppy Connector

**Red Stripe
to Pin1**

IDE Connectors
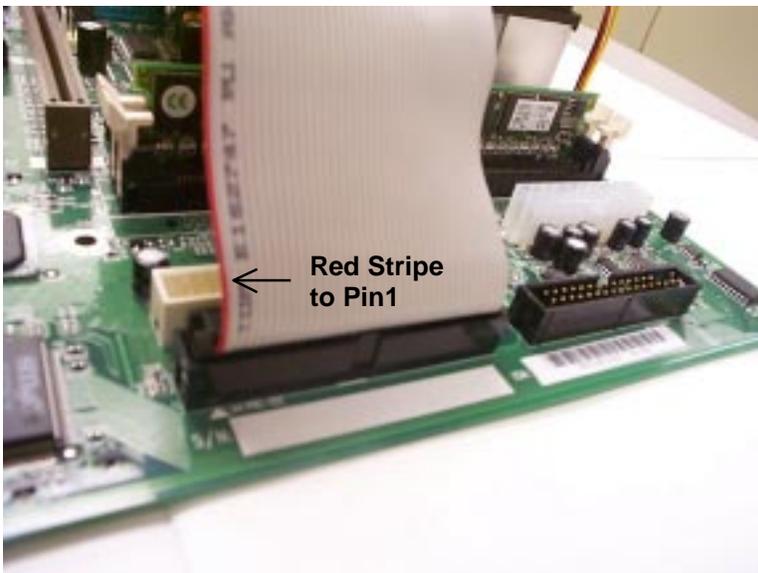
**Red Stripe
to Pin1**

Connect Floppy and IDE Drives

NOTE: If installing two IDE devices on the same ribbon cable, one device is to be set as "master" and the second as "slave". Please refer to IDE device manuals for master and slave settings.

1. Mount the desired drives into the chassis case.
2. Connect the floppy disk ribbon cable and power cable into the device. The side of the cable with the red stripe must be inserted to Pin1 of the floppy disk drive.
3. Connect the IDE ribbon cable and power cable into the device. The side of the cable with the red stripe must be inserted to Pin1 of the hard drive.

Floppy Disk Drive

Power Cable

Floppy Disk Ribbon Cable

Hard Disk Drive
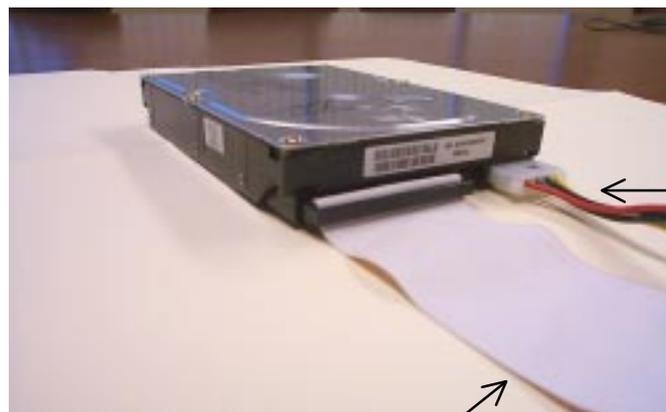
Power Cable

IDE Ribbon Cable

Installing Expansion Cards

1. Read the related expansion card's installation instructions before inserting the expansion card into the motherboard.
2. Remove the slot covers from the chassis case where the expansion cards will be placed.
3. Press the expansion card firmly into the expansion slot of the motherboard.
4. Secure the card with the screw provided.
5. Repeat same procedure when adding additional expansion cards.

Connect the Power Supply Cables

NOTE: The ATX power connector is keyed for proper insertion.

1. Place the plastic clip of the power connector over the plastic tab on the motherboard power connector. The plastic clip should lock into the plastic tab.
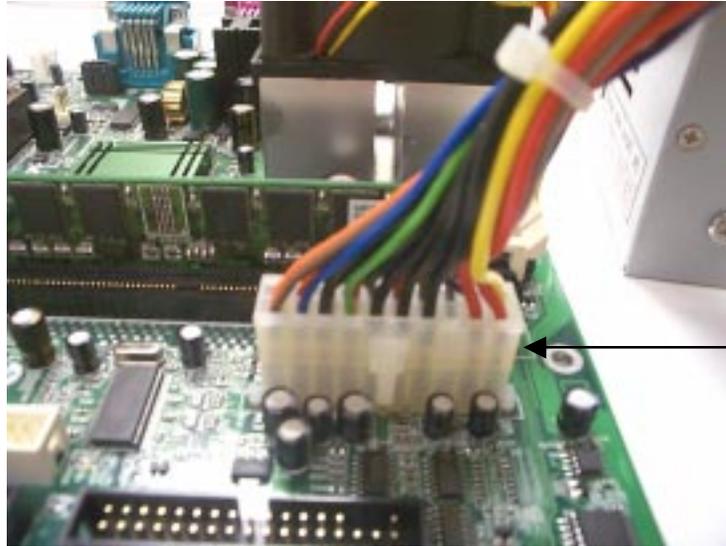
Power Supply Connector

I/O Back Panel Introduction
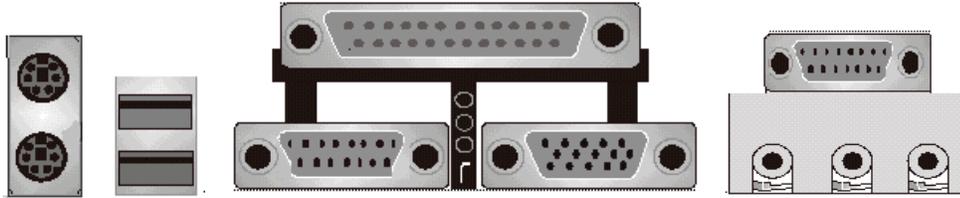
(1) PS/2 Keyboard and PS/2 Mouse Connector

←── PS/2 Mouse Connector (6 pin Female)

←── PS/2 Keyboard Connector (6 pin Female)
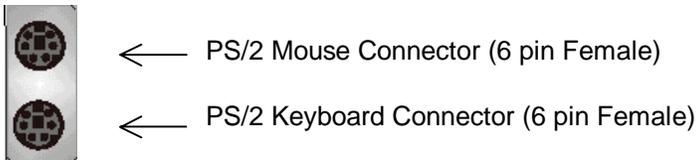
This connector supports standard PS/2 keyboard and PS/2 mouse.

(2) USB Connector

←── USB 1

←── USB 2
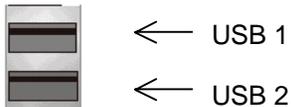
Before connecting device(s) into the USB connections, determine if devices have a standard interface.

Make sure your computer Operating System (OS) supports the USB controller. If not, contact your OS or device(s) vendors for more information.

I/O Back Panel Introduction   *cont….*

(3) Parallel Port and Serial Ports (COM1/COM2)

← — Parallel Port (25 pin Female)

COM 1   COM 2

Serial Ports (9 pin Male)
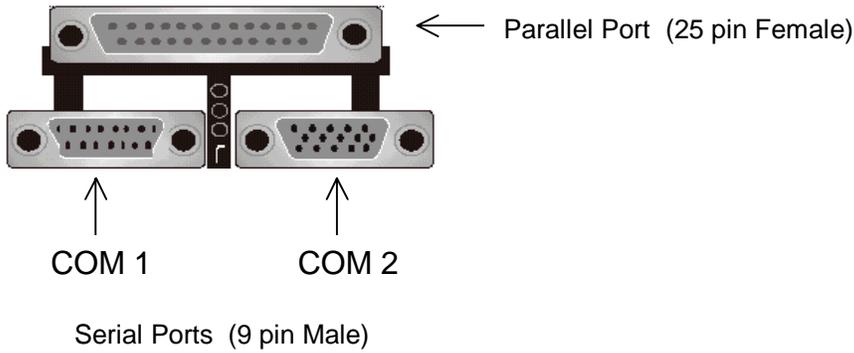
➕ This connector supports 2 standard COM ports and 1 Parallel port.

➕ Devices (i.e. printer) can be connected into the Parallel port.

➕ Devices (i.e. mouse, modem, monitor etc. can be connected into the Serial ports.)

(4) Game Port

➕ This connector supports joystick, MIDI keyboard and other related audio devices.

(5) Audio Connectors

Line out   Line In   MIC in
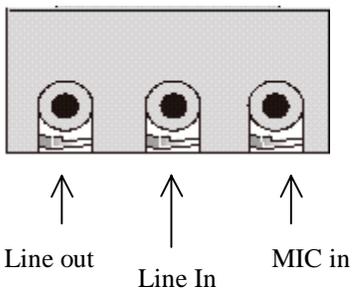
➕ Once onboard audio driver has been installed, the speakers may be connected into the Line out jack, audio devices such as CD-ROM etc., and a microphone into the MIC in jack.

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Jumper Introduction

Jumper Settings

The following graphic shows the meaning of the jumper with cover and without cover.

OFF   ON (1-2)
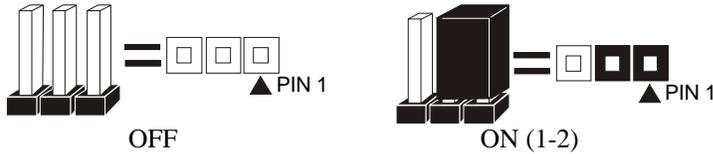
FWH Lock

This jumper allows you to set FWH lock.

Reference: JP1
Connector Type: 1 x 3

JP1		Description	Jumper Placement
1-2		FWH Lock	Put the jumper cover on pin1 and pin2.
2-3		FWH Unlock (Default)	Put the jumper cover on pin2 and pin3.

Safe Speed

This jumper allows you to set safe speed.

Reference: JP2
Connector Type: 1 x 3 male straight 0.100

JP2		Description	Jumper Placement
2-3		Safe Speed	Put the jumper cover on pin1 and pin2.
1-2		Normal Mode(Default)	Put the jumper cover on pin2 and pin3.

AMI® BIOS Setup

Entering Setup

To enter the setup menu, first power up the computer and press <Delete> key to enter the CMOS setup.

The Main Menu

When you enter the AMI® HIFLEX Setup Utility, the below Main Menu will appear. The Main menu allows you to select and modify your computer system. To navigate through the menu, simply use the arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

```
            AMI HIFLEX SETUP UTILITY - VERSION 1.37
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                    TR100 BIOS Rev: 1.00


                  Standard  CMOS  Features

                  Advanced  CMOS  Features

                Advanced  Chipset  Features

                 Power  Management  Setup

                PCI / Plug and Play Setup

                    Peripheral Setup

                 Hardware Monitor Setup

                 Auto-Detect Hard Disks

                  Change User Password

               Change Supervisor Password

            Auto Configuration with Optimal Setting

           Auto Configuration with Fail Safe Settings
                  Save Settings and Exit
                   Exit without Saving


      Standard CMOS setup for changing time, date, hard disk type, etc.

        ESC: Exit    ↑↓: Sel   F2/F3: Color   F10: Save & Exit
```

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Standard CMOS Setup

The items listed in the Standard CMOS Features Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired value for each item.

```
                   AMIBIOS SETUP - STANDARD CMOS SETUP
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Date (mm/dd/yyyy) :  Wed  Nov 28,2001              Base Memory: 639KB
Time (hh/mm/ss) :                                  Extd Memory: 126MB


Floppy Drive A:
Floppy Drive B:


                                                  LBA  BLK  PIO 32Bit
            Type      Size   Cyln   Head   Wpcom  SecMode Mode Mode Mode
Pri Master:
Pri Slave:
Sec Master:

Sec Slave:



Boot Sector Virus Protection:    Disabled


Month: Jan-Dec                               ESC: Exit  ↑↓: Sel
  Day: 01-31                                 PgUp/PgDn: Modify
 Year: 1980-2099                             F1: Help  F2/F3: Color
```

Advanced CMOS Setup

The items listed in the Advanced CMOS Features Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
                      AMIBIOS SETUP - ADVANCED CMOS SETUP
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1st Boot Device                    Disabled      Available Options:
2nd Boot Device                    Floppy
3rd Boot Device                    Disabled
Try Other Boot Devices             Yes
Intitial Display Mode              Silent
S.M.A.R.T for Hard Disk            Disabled
Floppy Drive Seek                  Disabled
System Keyboard                    Present
Password Check                     Always
CPU Serial Number                  Disabled
C000, 16K Shadow                   Enabled
C400, 16K Shadow                   Enabled
C800, 16K Shadow                   Enabled


                                                 ESC: Exit    ↑↓: Sel
                                                 PgUp/PgDn: Modify
                                                 F1: Help  F2/F3: Color
```

Advanced Chipset Setup

The items listed in the Advanced Chipset Setup Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
                     AMIBIOS SETUP - ADVANCED CHIPSET SETUP
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CPU Ratio Selection               Locked
System Memory Frequency           Auto
DRAM Refresh                      15.6uS
DRAM Cycle time (SCLKs)           6/8
CAS# Latency (SCLKs)              3
RAS to CAS delay (SCLKs)          3
SDRAM RAS# Precharge (SCLKs)      3
AGP Aperture Size                 64MB
CPU Latency Timer                 Enabled
USB Controller                    All USB Port
USB Device Legacy Support         All Device


Local Memory Frequency            133Mhz
Initialize Display Cache Memory   Enabled
     Paging Mode Control          Open
     RAS-to-CAS                   Default
     CAS Latency                  Slow
     RAS Timing                   Slow          ESC: Exit   ↑↓: Sel
     RAS Precharge Timing         Slow          PgUp/PgDn: Modify
                                                F1: Help  F2/F3: Color
```

Power Management Setup

The items listed in the Power Management Setup Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
                    AMIBIOS SETUP – POWER MANAGEMENT SETUP
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ACPI Standby State                      S3/STR        Available Options:

Power Management/APM                    Enabled

Suspend Time Out                        Disabled

Power Button Function                   On/Off

Restore on AC/Power Loss                Last State

Resume on Ring                          Disabled

Resume on LAN                           Enabled

Resume On PME                           Enabled

Resume On RTC Alarm                     Disabled

Alarm Date                              15

Alarm Hour                              12

Alarm Minute                            30

Alarm Second                            30




                                                      ESC: Exit   ↑↓: Sel

                                                      PgUp/PgDn: Modify

                                                      F1: Help  F2/F3: Color
```

PCI/Plug and Play Setup

The items listed in the PCI/Plug and Play Setup Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
                    AMIBIOS SETUP – PCI/PLUG AND PLAY SETUP
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 Plug and Play Aware O/S            No             Available Options:
 Primary Graphics Adapter          External AGP
 OnBoard VGA Status                 Enabled

















                                                 ESC: Exit   ↑↓: Sel
                                                 PgUp/PgDn: Modify
                                                 F1: Help  F2/F3: Color
```

Peripheral Setup

The items listed in the Peripheral Setup Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
                   AMIBIOS SETUP – PERIPHERAL SETUP
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OnBoard IDE                      Both      │Available Options:
OnBoard AC'97 Audio              Enabled   │
OnBoard FDC                      Auto      │
OnBoard Serial PortA             Auto      │
OnBoard Serial PortB             Auto      │
  Serial PortB Mode              Normal    │
     IR Duplex Mode              Half Duplex│
     IR Receiver Polarity        Active Low │
     IR Xmitter Polarity         Active Low │
OnBoard Parallel Port            Auto      │
  Parallel Port Mode             ECP       │
  Parallel Port IRQ              Auto      │
  Parallel Port DMA Channel      Auto      │
                                           │
                                           │
                                           │
                                           │
                                           │ESC: Exit   ↑↓: Sel
                                           │PgUp/PgDn: Modify
                                           │F1: Help  F2/F3: Color
```

Hardware Monitor Setup

The items listed in the Hardware Monitor Setup may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
                    AMIBIOS SETUP – HARDWARE MONITOR SETUP
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-= System Hardware Monitor =-                        Available Options:

CPU Temperature                      40°C/104°F

System Temperature                   30°C/86°F

CPU Fan Speed                        3613 RPM

Chassis Fan Speed                    0 RPM

Vccp (Processor)                     1.717V

+12.0V                               12.422V

+1.85V                               1.872V

+5.0V                                4.911V

+3.3V                                3.233V

+2.5V                                2.492V

+1.5V                                1.509V

FAN Speed Control                    Disabled

Chassis Intrusion                    Disabled




                                                     ESC: Exit   ↑↓: Sel

                                                     PgUp/PgDn: Modify

                                                     F1: Help  F2/F3: Color
```

Auto-Detect Hard Disk

The items listed in the Auto-Detect Hard Disk Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
                        AMIBIOS SETUP – STANDARD CMOS SETUP
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Date (mm/dd/yyyy) :  Wed  Nov 28,2001                 Base Memory: 639KB

Time (hh/mm/ss) :                                     Extd Memory: 126MB


Floppy Drive A:
Floppy Drive B:


                                                      LBA   BLK   PIO  32Bit
              Type   Size   Cyln   Head   Wpcom   Sec Mode  Mode  Mode  Mode
Pri Master:
Pri Slave:
Sec Master:
Sec Slave:



Boot Sector Virus Protection:    Disabled



Month: Jan-Dec                                ESC: Exit  ↑↓: Sel
 Day: 01-31                                   PgUp/PgDn: Modify
 Year: 1980-2099                              F1: Help  F2/F3: Color
```

Change User Password

The items listed in the Auto-Detect Hard Disk Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
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                    TR100 BIOS Rev: 1.00


                 Standard  CMOS  Features

                 Advanced  CMOS  Features

               Advanced  Chipset  Features

                Power  Management  Setup
                PCI / Plug and Play Setup


                Enter new user password: _



                  Change User Password

               Change Supervisor Password

            Auto Configuration with Optimal Setting

           Auto Configuration with Fail Safe Settings
                 Save Settings and Exit
                  Exit without Saving


                  Change user password

    ESC: Exit    ↑↓: Sel   F2/F3: Color   F10: Save and Exit
```

Change Supervisor Password

The items listed in the Change Supervisor Password Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
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                       TR100 BIOS Rev: 1.00


                    Standard  CMOS  Features

                    Advanced  CMOS  Features

                  Advanced  Chipset  Features

                   Power  Management  Setup
                  PCI / Plug and Play Setup

             ┌──────────────────────────────────────────┐
             │                                          │
             │                                          │
             │     Enter new supervisor password: _      │
             │                                          │
             │                                          │
             └──────────────────────────────────────────┘

                    Change User Password

                  Change Supervisor Password

            Auto Configuration with Optimal Setting

          Auto Configuration with Fail Safe Settings
                  Save Settings and Exit
                   Exit without Saving


                  Change the supervisor password

     ESC: Exit    ↑↓: Sel   F2/F3: Color   F10: Save and Exit
```

Auto Configuration with Optimal Setting

The items listed in the Auto Configuration with Optimal Setting Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
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            TR100 BIOS Rev: 1.00

            Standard  CMOS  Features

            Advanced  CMOS  Features

          Advanced  Chipset  Features

           Power  Management  Setup

           PCI / Plug and Play Setup

     ┌────────────────────────────────────────┐
     │                                        │
     │  Load high performing setting (Y/N)? N │
     │                                        │
     │                                        │
     └────────────────────────────────────────┘

             Change User Password

          Change Supervisor Password

      Auto Configuration with Optimal Setting

      Auto Configuration with Fail Safe Settings

             Save Settings and Exit

              Exit without Saving

    Load configuration settings giving highest performance

  ESC: Exit    ↑↓: Sel   F2/F3: Color   F10: Save and Exit
```

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Auto Configuration with Fail Safe Settings

The items listed in the Auto Configuration with Fail Safe Settings Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
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                    TR100 BIOS Rev: 1.00


                Standard  CMOS  Features

                Advanced  CMOS  Features

              Advanced  Chipset  Features

                Power  Management  Setup

                PCI / Plug and Play Setup


            Load failsafe settings (Y/N)? N



                Change User Password

              Change Supervisor Password

        Auto Configuration with Optimal Setting

       Auto Configuration with Fail Safe Settings

                Save Settings and Exit

                 Exit without Saving

            Load failsafe configuration settings

    ESC: Exit    ↑↓: Sel   F2/F3: Color    F10: Save and Exit
```

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Save Settings and Exit

The items listed in the Save Settings and Exit Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
┌──────────────────────────────────────────────────────────────────┐
│               AMI HIFLEX SETUP UTILITY – VERSION 1.37              │
│         ©2001 AMERICAN MEGATRENDS, INC.  ALL RIGHTS RESERVED       │
├──────────────────────────────────────────────────────────────────┤
│                                                                    │
│                     TR100 BIOS Rev: 1.00                           │
│                                                                    │
│                   Standard  CMOS  Features                         │
│                                                                    │
│                   Advanced  CMOS  Features                         │
│                                                                    │
│                 Advanced  Chipset  Features                        │
│                                                                    │
│                   Power  Management  Setup                         │
│        ┌─────────────────────────────────────────────────┐        │
│        │                                                   │        │
│        │    Save current settings and exit (Y/N)? Y        │        │
│        │                                                   │        │
│        │                                                   │        │
│        └─────────────────────────────────────────────────┘        │
│                                                                    │
│                   Change User Password                             │
│                                                                    │
│                 Change Supervisor Password                         │
│                                                                    │
│             Auto Configuration with Optimal Setting                │
│                                                                    │
│             Auto Configuration with Fail Safe Settings             │
│                                                                    │
│                   Save Settings and Exit                           │
│                                                                    │
│                   Exit without Saving                              │
│                                                                    │
├──────────────────────────────────────────────────────────────────┤
│            Write the current settings to CMOS and exit             │
│        ESC: Exit    ↑↓: Sel   F2/F3: Color   F10: Save and Exit    │
└──────────────────────────────────────────────────────────────────┘
```

Exit without Saving

The items listed in the Exit without Saving Features Menu may include no or more than one setup items. Use the arrow keys to navigate through the menu and use the <PgUp> or<PgDn> keys to select the desired option for each item.

```
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                    TR100 BIOS Rev: 1.00


                Standard  CMOS  Features

                Advanced  CMOS  Features

              Advanced  Chipset  Features

                Power  Management  Setup

                PCI / Plug and Play Setup

         ┌──────────────────────────────────────┐
         │                                      │
         │      Quit without saving (Y/N)? N    │
         │                                      │
         │                                      │
         └──────────────────────────────────────┘

                Change User Password

             Change Supervisor Password

         Auto Configuration with Optimal Setting

        Auto Configuration with Fail Safe Settings

                Save Settings and Exit

                Exit without Saving

         Exit without saving the current settings

    ESC: Exit    ↑↓: Sel   F2/F3: Color   F10: Save and Exit
```

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NOTES