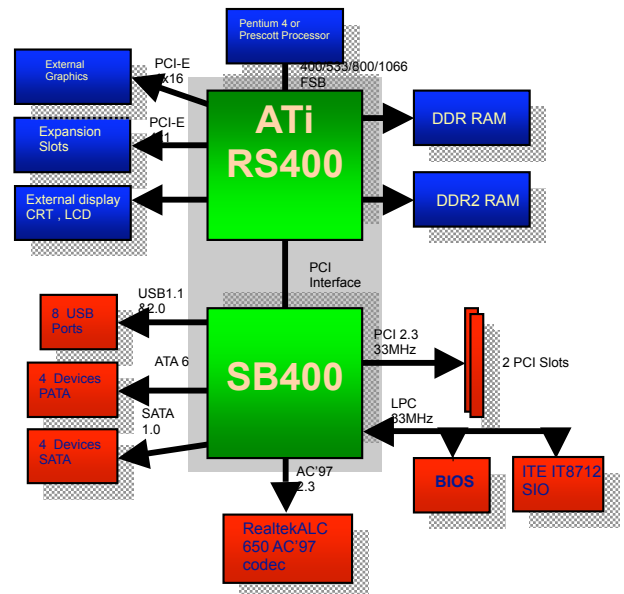


MobilePRO™ BIOS for the ATi RS400 + SB400 Chipset

■ Key Features

- PC standard compliant BIOS
- Crisis recovery from portable storage devices
- Legacy USB1.1 and 2.0 support
- Pentium 4 Northwood or Prescott Processor support
- LPC ISA Bridge support
- PCI Express and SATA support
- New InsydeDebugger2.0
- ATi PowerOnDemand™ support



The ATi RS400 chipset is designed, validated and optimized for the Pentium 4 (Northwood) or Prescott Processor using today's high-volume and well-established DDR 533 RAM memory technology. ATi RS400 chipset-based platforms, utilizing the DDR 533 RAM memory technology, extend the Pentium 4 processor capabilities throughout the mainstream PC markets.

A Complete System Software Suite

Insyde Software offers PC, Information Appliance, and Embedded manufacturers a complete system-level software solution for Intel's 915 chipset. In addition, Insyde software has a worldwide engineering support infrastructure to provide the highest level of support to ensure manufacturers get their system to market on time.

Insyde software's system-level software suite includes a core PC/AT BIOS ("Boot Loader"), and optional value added firmware layers for additional technologies; PCI, Plug and Play, Power Management, DMI, WfM, USB 1.1 & 2.0 and ACPI support.

Insyde Software's products are designed around a modular core with easily customizable source code and development/debug tools that allows system engineers to implement OEM-specific features into the software and provides sophisticated design flexibility.

Insyde Software Standard BIOS Features:

- 100-percent AT-compatible core BIOS with PS/2 extensions
- PC2001 compliant core BIOS
- Year 2000 compliant
- Compressed binary image with integrated decompress engine
- OnNow PC2001 BIOS support – Fast boot per Simple Boot Flag Specification
- Plug and Play 1.0a compliant
- PCI 2.3 compliant
- PCI Express compliant
- USB 1.1 & USB 2.0 compliant
- SMBIOS 2.3 (formerly DMI BIOS)
- Customizable system configuration utility
- DOS version flash utility
- Boot Block with Crisis Detect and Recover

ATI RS400 Specific Features

- FWH interface configuration
- LPC Bus interface configuration
- PC1600/2100/2700/3200 DDR SDRAM & PC3200/4200/5300 DDR2 SDRAM support
- ATI RADEON 9600-based 2D/3D graphics engine integrated
- Serial ATA & AHCI configuration.
- 2 USB 1.1 controllers & 1 USB 2.0 controller configuration.
- Boot Block & Crisis recovery
- 400/533/800/1066 MHz FSB
- ACPI Logic configuration
- Intel Hyper-Threading™ technology

Advanced Features:

- Enhanced Boot Device support: PXE, FDD, CardBus, HDD, CD-ROM, DVD-ROM, PC Card, LS-120, ZIP, MO, 1394 HDD, USB storage device.
- Mobile PXE support
- Multiple language support
- Graphic POST
- Graphic and Keyboard-Less SCU
- Boot logo support
- Windows flash utility
- Serial Presence Detect (SPD) and MA-Table sizing
- Disk-on-Chip support
- Integrated BIOS ROM debugger
- Keyboard & embedded controller firmware
- Keyboard Configuration Utility – greatly simplifies modification to the keyboard/embedded controller firmware
- Crisis recovery from multiple device: FDD, USB FDD, CDROM, USB CDROM

Power Management

- ACPI 2.0B compliant
- Intel SpeedStep™ technology
- Fully APM 1.2 compliant
 - CPU clock throttle
 - HDD timer
 - Display timer
 - Global standby timer
 - Suspend timer
 - Suspend to RAM
 - RTC alarm resume

- Suspend to Disk – File or Partition method (ACPI or Legacy)
- RTC alarm and battery management
- System management mode (SMM)
- Hot Key support

Legacy USB Support

- Multi-USB 1.1 controller
- USB 1.1 & USB 2.0 compliant
- Multi-level USB HUB support
- Multi-device support: FDD, CD-ROM, Dongle DVD-ROM, Mouse, Keyboard, HUB

Storage IDE

- Interrupt 13h extensions
- Automatic IDE drive detection and configuration
- Enhanced IDE/ATAPI device detection, boot and run-time API support
- Four IDE driver support
- Fast PIO mode timing
- Burst mode support
- Automatic ATAPI IDE detection
- ATAPI detect and run-time API
- IDE Bus Mastering
- Advanced EIDE Features
 - Larger than 10GB
 - Primary and secondary channel support
 - 32 bit I/O
 - LBA assist
 - PIO modes 1-4 for CD-ROM
 - Ultra DMA 100 support
 - Drive lock IDE security

Storage FDD

- Dual floppy controller
- Toshiba and 3-mode floppy
- Floppy boot disable security



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