



## XpressROM™ Firmware For the AMD Geode™ Solutions Set

### ■ Key Features

- *Co-developed by AMD and Insyde Software specifically for thin clients, embedded systems and more.*
- *Configuration tool provides simple binary customizations for quick time-to-market*
- *Suspend to RAM support for longer battery life*
- *Boot from Disk-on-Chip available*
- *Scalable architecture to support RTOS's, embedded Linux and Windows OS's*
- *Next generation Virtual System Architecture support (VSA II)*
- *USB PC Legacy support*



XpressROM is the premier BIOS solution for Geode based designs delivers a cost effective system level solution for consumer electronics, set-top boxes, thin clients and single board computing solutions.

Co-developed with Insyde Software, XpressROM is verified and shipped on AMD and AMD partner Geode reference designs. XpressROM development begins with the early support of new silicon and ends with a successful implementation on a customer's Geode powered platform.

XpressROM was built from the ground up for platforms based on the AMD Geode family of integrated processors, single chip IA devices and companion chips.

### Key XpressROM Features:

#### Supports all Geode Devices

As new Geode devices are produced, Insyde Software keeps XpressROM up-to-date.

#### Designed from Conception as IA BIOS

Simplifies customization effort, and thus helps to speed Geode products to market. Optimized for performance on Geode devices and tailored to specific needs of IA devices.

#### Quick Boot

Can boot in less than five seconds.

#### Text & Web Based Configuration Utilities

Allow simple, quick customization of XpressROM for a specific platform.



## **Additional XpressROM Features:**

### **Build Environment Embedded in ROM Image**

Simplifies task of field support.

### **ACPI Support**

Provides industry standard power management for easy integration with OSes and applications.

### **Suspend to RAM Support**

Provides "instant-on" capability for battery powered devices.

### **Legacy USB Keyboard and Mouse Support**

Allows the use of a USB keyboard and mouse before the OS loads a driver.

### **XpressGraphics and XpressAudio**

SMM software includes support for virtualized audio and graphics.



### **LZSS Compression/Decompression for BIOS Modules**

Compresses core BIOS modules and Option ROMs to enable system firmware to fit into 256K flash ROM.

### **Power-On Splash Screen**

Displays OEM-supplied splash screens during the power-on sequence.

### **Scalable architecture to support RTOS to Windows OSes**

Supports Win CE, Linux, Microsoft Windows XPe and more.

## **Custom XpressROM Options:**

### **Boot from M-Systems Disk On Chip Millennium**

Capability to boot from M-DOC saves cost and real estate of second flash part.

### **Boot from USB CD-ROM and HDD**

### **Custom Microcontroller Firmware**

- Power plane control
- Battery Management
- Touch-screen



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