

Stable and Highly Observable Enabling Better Time-to-Production



General Description

The AMD Geode™ SP4SC3I system platform enables a system designer to write and test code for WebPAD and thin-client applications. The ability to perform such development in a stable and highly observable system can shorten the time required to bring a small-form-factor board to production.

The SP4SC3I system platform is designed around AMD Geode Solutions products.

The SP4SC3I system platform provides three primary functions

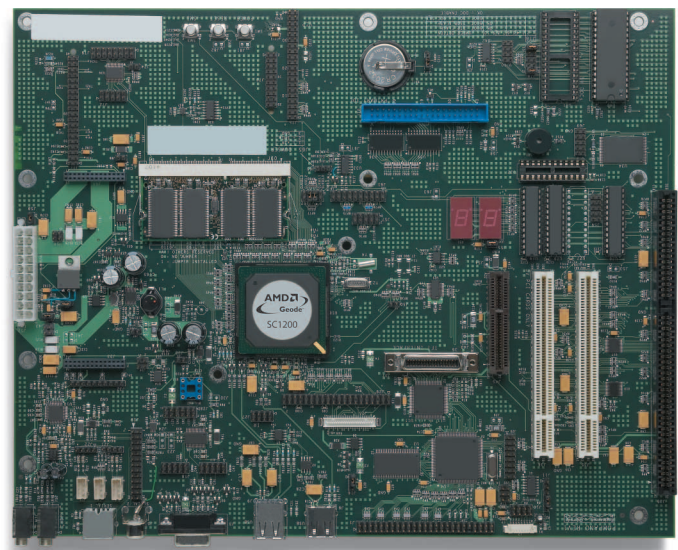
- Development and validation of software
 - Application software for design concept
 - BIOS firmware validation
- Development of hardware-based products
 - Design development and emulation
 - Proof-of-concept
- Evaluation of on-board silicon
 - AMD Geode SC2200 processor
 - AMD Geode SC3200 processor

The SP4SC3I system platform motherboard design allows for easy access to hardware for test, measurement and debug; test points are clearly marked. A wide assortment of I/O devices can be connected to simulate a WebPAD system or thin-client design. An external power supply or an Eel battery adapter board (also provided by AMD) is required to power the platform. The BIOS is provided by AMD XpressROM system firmware products. Sockets are provided for M-Systems DiskOnChip (DOC) and SanDisk CompactFlash. The board includes one sub-ISA slot, two 3.3 V PCI slots and an LPC (Low Pin Count) interface. A wide range of jumper and software selectable options allow for a variety of specific validation and development configuration options.

Technical Specifications

Processor, Chipset and Supporting Chips

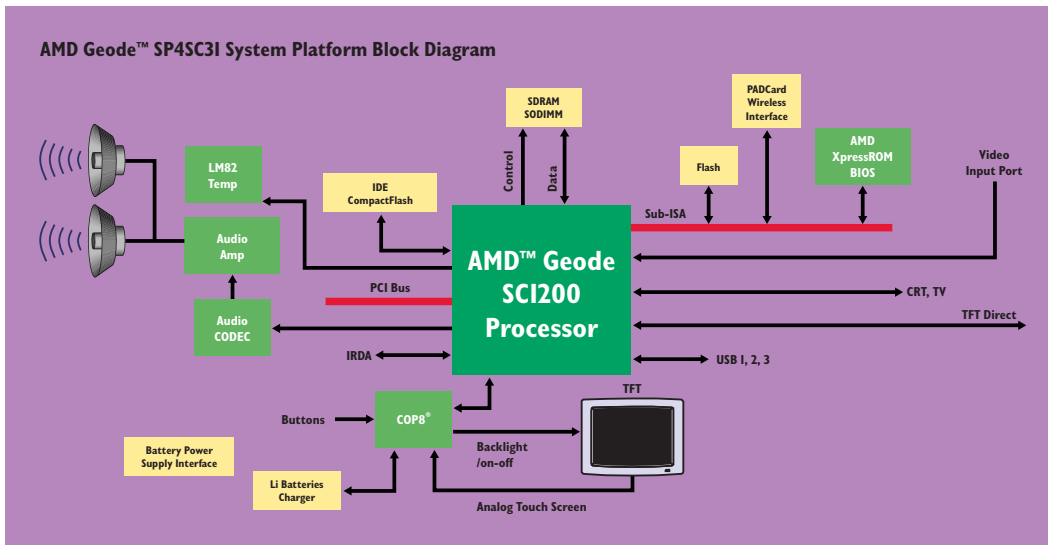
- SC3200 processor
- SC2200 processor
- AMD Geode SC1200 processor
- AMD Geode SC1201 processor
- Audio codec
- Dual-pixel LVDS display interface
- COP8 CBR flash microcontroller on daughter card



Software Support

- Operating System support
 - Datalight ROM-DOS
 - DOS 6.22
 - Linux
 - Microsoft® Windows® CE .NET
 - Microsoft XP and XPe
 - Provides Microsoft Smart Display solution when used with SF20 daughter card kit
- Firmware: Embedded microcontroller firmware
 - Button input
 - Touch-screen analog-to-digital interface
 - Battery charging control
 - LCD backlight control
 - System thermal management
- Firmware: XpressROM
 - Provides standard BIOS functionality™
 - AMD VSA2 (Virtual System Architecture®) for legacy functions
 - Power management
 - 16-bit audio
 - Standard VGA compatibility
 - Legacy USB support
 - Stored in FlashROM

AMD Geode™ SP4SC3I System Platform



Expansion Capabilities

- Standard ATX I/O
- Battery power connection option
 - Using Eel battery adapter board
- One ISA and two 3.3 V PCI slots, with 5.0 V PCI adapter card
- LPC bus interface, for interfacing to standard LPC Super I/O and Flash devices

Hardware and Socketing Options

- SC2200/SC3200 processors (shipped with SCI200 processor)

Environmental Goals

- Temperature
 - Operating: 0°C to 60°C
 - Non-operating: -20°C to 85°C
- Relative humidity
 - Operating: 20% to 80%, non-condensing
 - Non-operating: 5% to 95%, non-condensing

- Altitude
 - Operating: sea level to 10,000 feet (3,048 meters)
 - Non-operating: sea level to 40,000 feet (12,160 meters)

Accessory Kits

Mobile PAD Kit

- SP4SC3I system platform-Mobile includes
 - Eel mobile power supply board
 - AC adapter
 - Battery

Microsoft Smart Display Development Kit

Provides support for high-quality touch screen, USB client, buttons and battery control as defined by the Microsoft Smart Display specifications.

- SF20 includes
 - SF20 development board
 - SF20 users guide
 - Supporting cables

About AMD

Founded in 1969 and based in Sunnyvale, California, AMD (NYSE: AMD) is a global supplier of integrated circuits for the personal and networked computer and communications markets with manufacturing facilities in the United States, Europe, Japan

and Asia. AMD, a Standard & Poor's 500 company, produces microprocessors, Flash memory devices and silicon-based solutions for communications and networking applications.



www.amd.com

One AMD Place
P.O. Box 3453
Sunnyvale, CA 94088-3453, USA
Tel: 408-749-4000 or 800-538-8450
TWX: 910-339-9280
TELEX: 34-6306

Technical Support

USA & Canada: 800-222-9323 or 408-749-5703
USA & Canada PC Microprocessor:
408-749-3060
USA & Canada Email: hw.support@amd.com

Latin America Email:
latinamerica.support@amd.com

Europe & UK: +44-0-1276-803299
Europe & UK Fax: +44-0-1276-803298
France: 0800-908-621
Germany: +49-089-450-53199
Italy: 800-877224
Europe Email: euro.tech@amd.com
Far East Fax: 852-2956-0588

Japan Fax: 81-3-3346-7848

Literature Ordering

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