

SBC-GX533

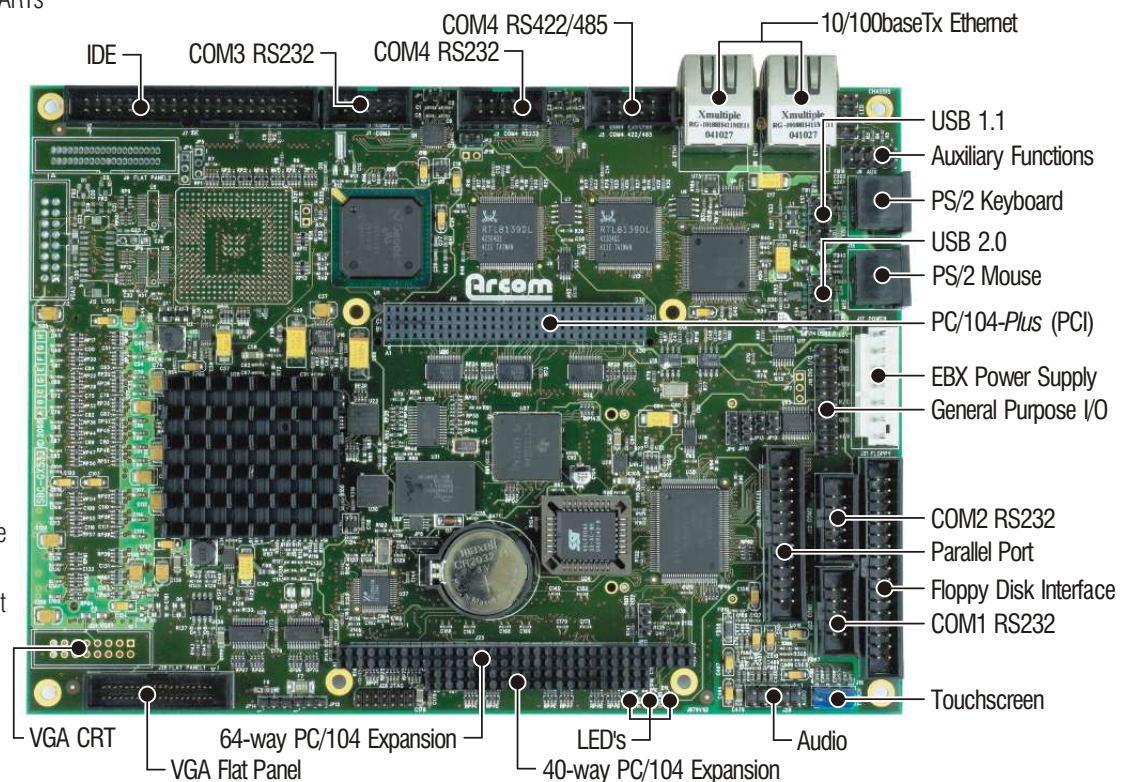
RoHS compliant, fan-less 400MHz Geode™ GX embedded PC

Features

- AMD Geode™GX embedded CPU
 - 400MHz clock rate with 533MHz performance at @1.1W power dissipation
 - Integrated CRT or TFT graphics controller
 - 32KB L1 cache (16KB instruction, 16KB data)
- Up to 512Mbytes 266MHz DRAM (SODIMM on solder side)
- Up to 32Mbytes onboard AMD MirrorBit Flash memory
- 256Kbytes of battery backed SRAM
- Integrated graphics controller (either CRT or TFT)
 - 1600 x 1200 x 16 @ 85Hz (CRT)
 - 1280 x 1024 x 24 @ 85Hz (CRT)
 - 1280 x 1024 x 24 @ 60Hz (TFT)
- 4 wire analog touchscreen interface
- Dual 10/100baseTx Ethernet Controllers (Realtek 8139DL)
- FDD, IDE, resident Flash and CompactFlash (CF+)
- 4 high speed 16C550 compatible UARTs
 - 3x RS232, x1 RS232/422/485
- 2 high speed USB 2.0 ports and 2 USB 1.1 ports
- Standard keyboard, mouse, printer port, RTC
- 16-bit AC'97 audio CODEC
- 16bit ISAbus PC/104 and PCI PC/104-Plus expansion
- 8 TTL compatible digital I/O lines (4 buffered)
- LM87 Hardware Monitor for temperature and voltage
- Programmable watchdog timer 1ms to 60s timeout
- Fan-less operating temperature range -20°C to +60°C (4°F to +140°F)
- Industry standard EBX board footprint 5.75" x 8.00" (146mm x 203mm)

Description

The SBC-GX533 is a low profile, fan-less, EBX form factor board, based on the AMD Geode™GX 533@1.1W embedded processor. It includes all the standard PC interfaces as well as an onboard graphics controller to drive a standard analog display or a TFT flat panel, dual 10/100baseTx Ethernet, onboard 32Mbyte Flash drive, CompactFlash port, four USB ports, four serial ports and PC/104-Plus. The PC/104-Plus connector provides an embedded PCI expansion port for a wide variety of third party I/O boards. This board is RoHS compliant and is ideal for compact systems with restricted ventilation.



SBC-GX533

RoHS compliant, fan-less 400MHz Geode GX embedded PC

Specifications

Temperature

- Operating -20°C to +60°C (-4°F to +140°F)
- Storage -40°C to +70°C (-40°F to +158°F)

Humidity

- 10% to 90% RH (non-condensing)

Real Time Clock accuracy

- +/- 1min/month @ 25°C (77°F)

Software

- General Software Embedded BIOS
- Datalight ROM-DOS operating system
- Datalight FlashFX Flash media management
- Eboot (for Windows CE 5.0)
- JFFS2 (for embedded Linux)



Power requirements

- +5V +/- 5% 1.5A (typical)

Battery

- 3.0V Lithium 180mAh (CR2032 Coin Cell)

Dimensions

- EBX compatible format
- 5.75" x 8.00" (146mm x 203mm)

Weight

- 270 grams

Ordering Information

SBC-GX533-FM0-F0-R6 Standard board with TFT display output, no Flash or DRAM fitted

SBC-GX533-FM0-F32-R6 Standard board with TFT display output, 32MBytes Flash, no DRAM fitted

SBC-GX533-C-M0-F0-R6 Standard board with CRT display output, no Flash or DRAM fitted

SBC-GX533-C-M0-F32-R6 Standard board with CRT display output, 32MBytes Flash, no DRAM fitted

Contact Arcom for more information and availability of SBC-GX533 boards pre-installed with SDRAM options. Modified/depopulated versions are available subject to minimum order quantities. Please contact our Sales team to discuss your requirements.

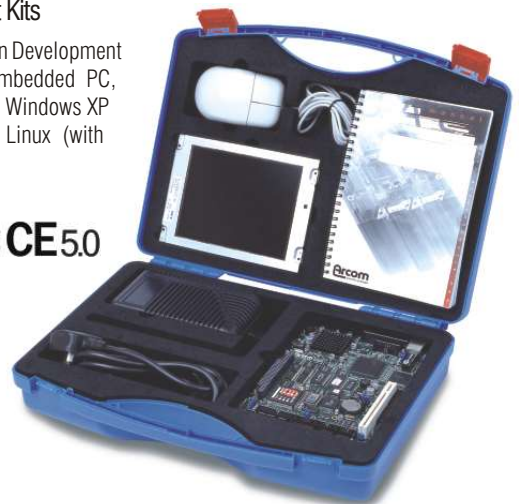


Typical Applications

The SBC-GX533 is targeted at applications which require the benefits and compatibility of a standard PC along with low power, embedded, fan-less systems design. The integrated 2D graphics accelerator makes the SBC-GX533 ideal for human-machine interface panels, kiosks and information terminals.

SBC-GX533 Development Kits

Arcom offers rapid application Development Kits for the SBC-GX533 embedded PC, supporting Windows CE 5.0, Windows XP Embedded and embedded Linux (with Java technology).



Associated Products

SBC-GX533 ICE

High-performance multimedia EBX format compact enclosure

- A fully CE/FCC compliant enclosure for the SBC-GX533 single board computer
- Universal AC input 90 - 132 / 180 - 264 (auto-ranging) with switched IEC input socket
- Optional DC/DC (nominal 24V input) power supply with (battery backed) safe-shutdown capability for Windows XP systems
- Operating temperature range 0°C to 55°C (32°F to 131°F)
- PS/2 mouse/keyboard sockets
- VGA outlet (D-type 15 way socket)
- 4 x serial ports (D-sub 9 way) and 2 x USB ports
- 2 x RJ45 Ethernet ports (10/100baseTx)
- Expansion space for up to two PC/104 cards
- Space for 2.5" IDE hard disk



System Integration Products

Adapter module to connect to a variety of TFT flat panel displays directly to the SBC-GX533.



Check our website for more details

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