GEMINI

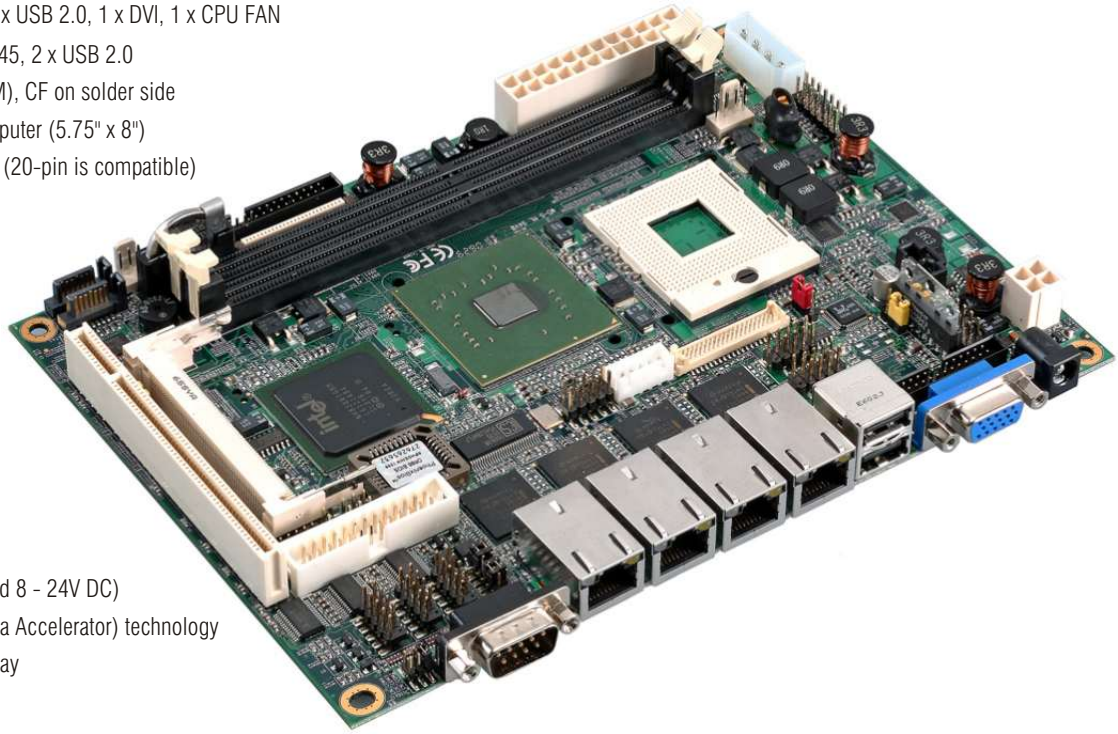
5.25" Embedded Intel® Core™ 2 Duo/Solo Motherboard

Features

- Intel Core 2 Duo / Core Duo / Core Solo / Celeron M 4xx Processor (Merom/Yonah) @ 533 / 667MHz FSB
- Intel 945GM & ICH7M chipset
- 2 x DDR2 533/667MHz SDRAM up to 3GB
- Integrated RTC with onboard lithium battery
- ACPI 1.0 compliant, supports power saving mode
- 1 x 44-pin Ultra DMA33 IDE interface supports up to 2 x ATAPI devices
- Intel 945GM integrated GMA (Graphic Media Accelerator) 950 Technology
- Up to 224MB video memory shared with system memory
- Onboard 18/24-bit single/dual channel LVDS connector
- Dual video, VGA LVDS, DVI and component video output
- 2 x serial ATA interfaces with 150MB/s transfer rate
- 4 x Intel 82573L Gigabit Ethernet controller
- Intel ICH7-M integrated with Realtek ALC655 5.1 CH AC97 Codec
- Onboard programmable 8-bit digital I/O interface
- 1 x PCI slot ,1 x Mini-PCI socket
- Internal I/O Ports
  2 x PS2, 1 x IrDA, 1 x GPIO, 2 x RS232, 1 x RS232/422/485, 2 x SATA, 1 x PCI, 1 x Mini-PCI, 1 x CF, 1 x SYS FAN, 1 x FDD, 1 x LPT, 1 x IDE, 1 x VIDEO, 1 x LCD Inverter driver, 1 x AUDIO, 1 x CDIN, 1 x LVDS, 4 x USB 2.0, 1 x DVI, 1 x CPU FAN
- I/O Ports 1 x COM, 1 x VGA, 4 x RJ45, 2 x USB 2.0
- Onboard 44-pin IDE (supports DOM), CF on solder side
- 5.25" form factor single board computer (5.75" x 8")
- Standard 24-pin ATX power supply (20-pin is compatible) or 8 - 24V full range DC Input
- Operating temperature 0 to +60ºC

Description

The GEMINI, Arcom's 5.25" form-factor SBC, brings Intel's latest Core 2 Duo technology to the embedded and industrial market. Offering our highest ever performance, coupled with the guaranteed longevity-of-supply the market expects from Arcom. The GEMINI has all the requirements for enterprise and residential network applications as well as the processing power to handle today's demanding software, such as graphics-intensive applications or serious number-crunching programs.



Key Benefits

- 3 year product warranty
- Flexible PSU requirements (ATX and 8 - 24V DC)
- Integrated GMA 950 (Graphic Media Accelerator) technology
- VGA, DVI, LVDS and TV multi-display
- 4 x Intel Gigabit LAN interface
- Integrated CompactFlash interface

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Specifications

Temperature
- Operating 0°C to +60°C

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

Real Time Clock accuracy
- +/- 1min/month @ 25°C

Battery
- 3.0V Lithium 225mAh (PANASONIC CR2032 Coin Cell)

Dimensions
- 5.75" x 8.00" (146mm x 203mm)

Weight
- 370 grams (MB only, without CPU/heatsink/RAM)

Ordering Information

GEMINI

Typical Applications

- Low power, high density server racks
- Operator workstations
- Network controllers
- Multimedia displays
- Digital signage

Associated Products

GEMINI ICE PC Enclosure

The GEMINI ICE PC is a rugged industrial computer built from seam welded, mild steel. It includes an optional fanless universal AC / 8 - 24V DC input power supply, optional front panel 'user' information and navigation display, and provides easy access to all the features of the high performance GEMINI platform. The standard system includes a low profile DVD/CDRW drive and internal 2.5"/3.5" disk drive options.

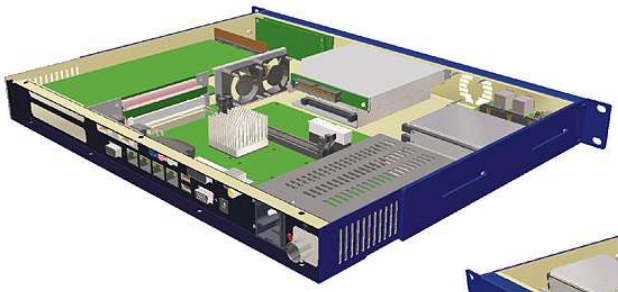
- 1U 19 inch standard enclosure (350mm deep)
- DVD/CDRW drive
- Internal 2.5" / 3.5" HDD
- Front panel access to 4 x USB 2.0 ports, power switch and system reset
- Optional front panel LCD system status display and user LEDs
- Dynamic control of the chassis and CPU heatsink fan speeds directly by the GEMINI SBC
- 2 x PCI v2.2 expansion slots
- Fanless auto-ranging PSU (110V / 240V AC / 8 - 24V DC) or standard auto-ranging AC PSU

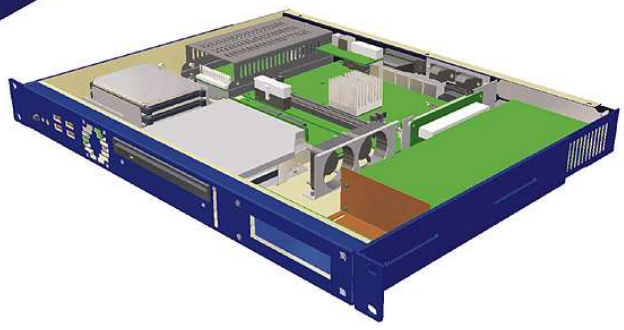
GEMINI Development Kits

Arcom offers ready-to-run Development Kits supporting Windows XP Embedded and embedded Linux. Contact the Arcom Design & Build services team to discuss your support requirements for other embedded operating systems.

Microsoft® Windows® Embedded Partner
Gold-level Member

Linux 2.6 POWERED





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