

SBC340

3U VPX Single Board Computer

Features

- Intel Core 2 Duo processor @ 2.16 GHz, or 1.5 GHz
- Intel 945GM chipset
- Up to 4 GBytes DDR2 SDRAM
- 16-lane PCI Express™ to the backplane for high-performance graphics
- 4-lane PCI Express to backplane for connection to fabric
- 3U VPX form factor
- Air- and conduction-cooled variants

The SBC340 is the first Intel processor-based offering on the 3U VPX form factor. Implementing the 2.16 GHz T7400 Intel Core Duo processor architecture, SBC340 brings state of the art processing performance to the military and aerospace market.

With a rich set of I/O, the SBC340 is a rugged PC aimed at processing, communications and display applications. The Intel 945GM Northbridge provides a dual-bank DDR SDRAM interface, as well as incorporating GMA 950 graphics capability. High-speed interfaces include Gigabit Ethernet, Hi-Speed USB 2.0, SATA and GPIO.

The VPX form factor allows for high speed PCI Express connections to other cards in the system. SBC340 supports two PCI Express ports across the backplane.

Firstly, a 16-lane PCI Express port provides high performance access to a dedicated graphics processing unit, such as that on the GRA110 graphics board. Secondly, a 4-lane PCI Express port allows high speed data communication to other single board computers and PMC carrier cards in order to build complex systems. Alternatively, the 4-lane port can be configured as four single-lane ports.

SBC340 is supplied with a BIOS, supporting operating systems such as Microsoft® Windows® XP, Windows XP Embedded, Linux® and VxWorks®.

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Specifications

Processor

- Intel Core 2 Duo T7400

Processor Speed

- 2.16 GHz or 1.5 GHz

Front Side Bus Speed

- 667 MHz

Processor Secondary Cache

- 2 MBytes full-speed on-die Level 2 cache

Motherboard Chipset

- Mobile Intel® 945GM; ICH7M-DH

Memory Size

- Up to 4 GBytes 667MHz DDR2 SDRAM

Flash Disk

- 1 GByte embedded IDE Flash disk

Audio

- N/A

Network

- 10/100/1000 Gigabit Ethernet

Serial COMs Ports

- 2x RS232

Video Controller

- GMA 950 internal or external 16-lane PCIe graphics card

Video Memory Size/Type

- Shared if using GMA950

RAMDAC

- 400 MHz

Graphics

- Single channel 2048x1536 @ 60 Hz resolution, 32-bit color SXGA

USB ports

- 4x USB2

Keyboard & Mouse

- PS2/USB

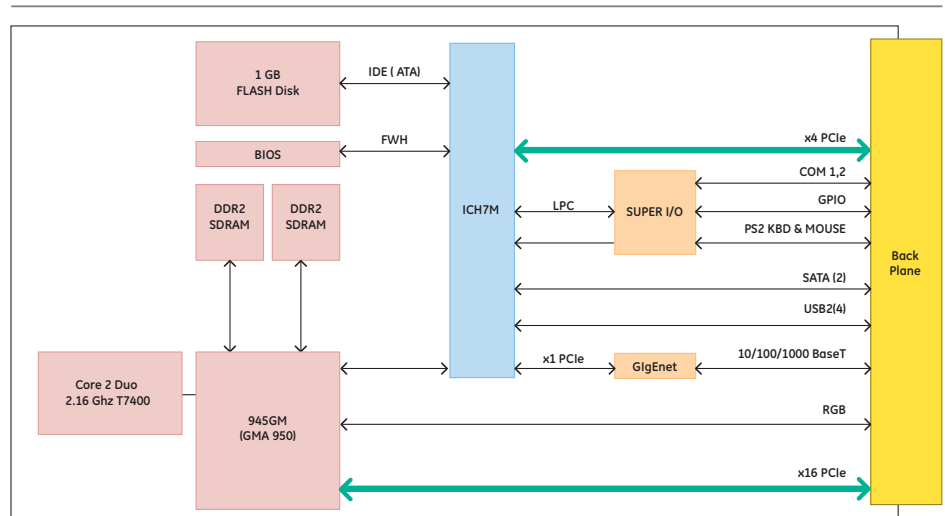
Form factor

- 3U VPX

Operating System

- Microsoft Windows XP Embedded (not included), Linux (not included), VxWorks

Block Diagram



About GE Fanuc Intelligent Platforms Embedded Systems

GE Fanuc Intelligent Platforms is a leading global provider of embedded computing solutions for a wide range of industries and applications. Our comprehensive product offering includes many types of I/O, single board computers, high performance signal processors, fully integrated, rugged systems including flat panel displays, plus high speed networking and communications products. The company is headquartered in the U.S. and has design, manufacturing and support offices throughout the world. Whether you're looking for one of our standard products or a fully custom solution, GE Fanuc Intelligent Platforms has the breadth, experience and 24/7 support to deliver what you need. For more information, visit www.gefanuc.com.

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Additional Resources

For more information, please visit the GE Fanuc Intelligent Platforms web site at:

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