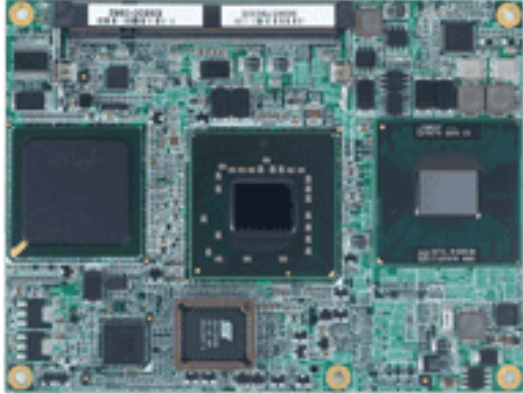


SoM-5786



Embedded Intel® Core™ 2 Duo processor

Supports dual DDR2 SODIMM up to 4 GB

Supports PCI Express

Supports 8 host USB 2.0 ports and 3 SATA ports

Supports dual channel LVDS panel

Supports PCIe x16 or 2 SDVO

The SoM-5786 is an embedded COM Express Type 2 CPU module that fully complies with the PCI Industrial Computer Manufacturers PICMG COM Express standard. The new CPU module supports Intel Core Duo / Solo processor by Intel GME965/ICH8-M chipset which supports faster integrated graphic engine, PCI Express and SATA interfaces. In a basic form factor of 95 mm x 125 mm, the SOM-5786 provides a scalable high performance and easy to integrate solution for customers' applications by utilizing a plug-in CPU module on an application-specific customer solution board.

The SoM-5786 is designed to plug into a carrier board that contains all the connectors and any custom I/O required for the application. With this System On Module approach a semi-custom hardware platform can be developed in as little as a month. A development carrier board (

SoM-DB5700) is available from EMAC, allowing the user to immediately start coding their application.

Specifications

SOM Type:

COM Express Modules

Processor

Intel Core 2 Duo Processor w/64 KB primary cache memory

Real Time Clock:

Memory

BIOS/Bootloader:

AWARD 4Mbit Flash BIOS

Memory Misc.:

System Memory: 2 x 200-pin SODIMM sockets, DDR 533/667 MHz up to 4 GB

System Chipset: Intel GME965 GMCH/ICH8-M Chipset 533/800 MHz FSB

Primary I/O

One EIDE Channels (Ultra DMA 100)

Video Out:

CRT/LCD

Audio:

High definition audio interface (AC97/Azalia)

USB:

8x USB 2.0

Watchdog:

Primary I/O Misc.:

Floppy Disk Drive Interface: 1 Floppy channel (shared with LPT)

Display

Chipset: Intel GME965

Memory Size: DVMT 4.0 support up to 384 MB

Display type: Simultaneously supports CRT / LCD, LCD / TV, CRT / TV displays

Dual-view supports CRT / LCD displays

Supports 18-bit dual channel LVDS interface

Display mode: CRT Mode: Support up to 2048 x 1536, LCD Mode: Support up to 1600 x 1200, TV Mode: Support up to 1024 x 768

Secondary I/O

Keypad:

PS/2:

Analog on

D/A:

Dimensions

4.92 × 3.74 in

Power Requirements

Power Supply Voltage: +12 V, +5 VSB for ATX

Power Requirements: +12 V @ 2.56 A (Intel Core 2 Duo T7500)

Typical: (1 GB DDR2 667)

Environmental
Low Operating Temperature:
0 C

High Operating Temperature:
60 C

Upper Operating Humidity:
90%

Pricing
SoM-5786FG-00

Intel 965GME COM Express module, GLAN
\$368.00

Base Product:

SoM-5786

SoM-5786FG-S0

Intel Core 2 Duo U7500@1.06GHz, GLAN
\$866.00

Base Product:

SoM-5786

Non-Stock NCNR:
0

Carrier Boards:

SoM-DB5700-0

COM express development carrier board
\$315.00

Base Product:

SoM-DB5700

Source URL: <https://www.emacinc.com/content/som-5786>