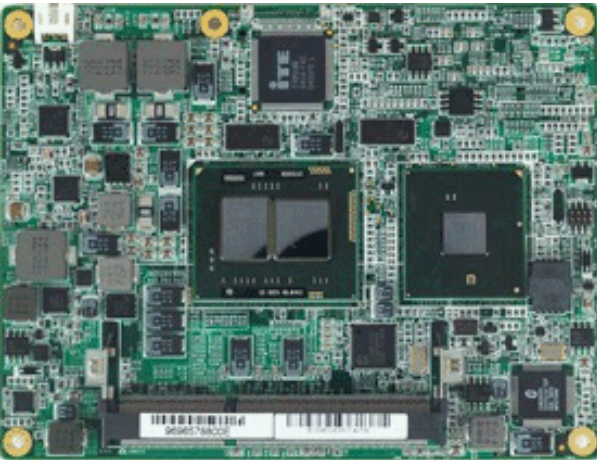


SoM-5788



Embedded Intel® Core™ i7 (1.06~2.53 GHz)

Supports 2 DDR3-1066 memory SODIMM sockets up to 8 GB

Supports 6 PCIe x 1, 4 PCI masters

Supports 8 host USB 2.0 ports and 3 SATA ports

Intel® GMA supports 18/24-bit LVDS, HDMI, Displayport, VGA

SOM-5788 is a COM-Express Basic Module with type 2 pin-outs that fully comply with the PCI Industrial Computer Manufacturers Association (PICMG) COM Express standard. The new CPU module integrates an Intel Arrandale CPU with Ibex Peak-M chipset which supports Intel Embedded Gen5.75 GfX with 12 execution units, full AVC, VC-1, and MPEG2 HW decode features. In a basic form factor of 125mm x 95mm, the SoM- 5788 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-5788 with advanced I/O capacity incorporates serial differential signaling technologies such as PCI Express, Serial ATA, USB 2.0, LVDS, and HD Audio interfaces. SOM-5788 offers design partners more choices for their own applications needing higher computing speeds while maintaining a compact form factor.

The SOM-5788 is a highly integrated multimedia COM module that combines audio, video, and network functions. It provides high processing capability via Intel® Core i7 / i5 processors, dual channel LVDS, HDMI, DVI, and TV-out for four independent display support with hybrid multi-monitor capability (integrated and discrete graphics working simultaneously), DDR3 memory up to 8 GB, and high definition audio interface (AC97/Azalia).

Specifications

SOM Type:

COM Express Modules

Processor

Intel Core i7 processor (1.06~2.53 GHz)

Real Time Clock:

Memory

BIOS/ Bootloader:

AMI 64 Mbit Flash BIOS

Memory Misc.:

System Memory: 2 x 204-pin SODIMM sockets, DDR3 800/1066 MHz up to 4 GB

System Chipset: Intel QM57

Primary I/O Disk Interface

1x EIDE Channels (Ultra DMA 100)

Audio:

High definition audio interface

Ethernet:

Intel 82577LM Gigabit Ethernet 10/100/1000Base-T

USB:

8x USB 2.0

Serial Ports:

4x SATA

Watchdog:

Primary I/O Misc.:

Display

Chipset: Intel GMA integrated in Core i7

Memory Size: DVMT 4.0 support up to 384 MB

Display type: VGA, LVDS, HDMI, DVI, Displayport, TV-out, GMA driver supports up to 2 independent display.

Display mode:

- VGA port: Support up to 2048 x 1536
- LVDS dual channels, 18/24 bits
- HDMI/DVI: Support up to 1920 x 1200
- Displayport: Support up to 2560 x 1600
- TV-out: Thru SDVO(optional)

Secondary I/O Keyboard

Keypad:

PS/2:

Analog on A/D

D/A:

Dimensions Dimensions

4.92 × 3.74 in

Form Factor:

Type 2

Power Requirements Power Misc.

Power Supply Voltage: +12 V power only (+5VSB is need for ACPI and ATX power)

Environmental Low Operating Temperature

-20 C

High Operating Temperature:

80 C

Upper Operating Humidity:

90%

Pricing
SoM-5788FG-U0A1

Intel Core i7 2.0Ghz, Glan/Sata/usb/pci/pciE

\$945.00

Base Product:

SoM-5788

SoM-5788Z1-U0A1

Intel Core i7 2.0Ghz, Glan/Sata/usb/pci/pciE/-20~80

\$1,150.00

Base Product:

SoM-5788

Non-Stock NCNR:

0

Carrier Boards:

SoM-DB5700G

COM Express Development Carrier Board WITH gLAN

\$293.00

Base Product:

SoM-DB5700

Source URL: <https://www.emacinc.com/content/som-5788>