

Main Features

- ◆ Intel® 2nd Generation Core™ Mobile Processors
- ◆ Intel® QM67/HM65 PCH
- ◆ 1 x DDR3 SO-DIMM Socket
- ◆ Type 2 COM Express Module Support 6 Express Lanes, 32 bit PCI Interface, One IDE and Gigabit LAN

Product Overview

The ICES 267 is a Type 2 COM Express Module featuring Intel® QM67/HM65 Platform Control Hub, which supports Intel® 2nd generation Core™ Mobile processors and one DDR3 SO-DIMM memory socket up to 4GB. The ICES 267 is integrated with Intel® HD graphics or expands via PCI Express Graphic 1x16 lane to carrier board; it also supports other display types include LFP or Dual channel LVDS. The high performance ICES 267 COM Express Module supports 4x SATA, 8x USB 2.0 and 6 PCIe x1 lanes through the carrier board; and it is compatible with ICEB 8050 carrier board.

Specifications

CPU Support

- ◆ Support 2nd generation Intel® Core™ Mobile processors, socket FCPGA 998

Main Memory

- ◆ One DDR3 1066/1333 MHz SO-DIMM, up to 8GB

Platform Control Hub

- ◆ QM67/ HM65

BIOS

- ◆ AMI System BIOS
- ◆ Plug and play support

Display

- ◆ Intel® HD graphics solution
- ◆ One PCI Express X 16 Lane down to the carried board
- ◆ Drive a standard progressive scan analog monitor with resolution up to 2048 x 1536 @ 60Hz
- ◆ Supports LVDS 18/24-bit & single/dual channel interface

Audio

- ◆ HD audio interface

On-board LAN

- ◆ Intel® 82579LM Gigabit Ethernet, support iAMT 7.0 (supported with QM67 only)

- ◆ Support boot from LAN, wake on LAN function
- ◆ Signals down to I/O board

COM Express Connector

- ◆ AB
- ◆ VGA/ LVDS/ 8 x USB 2.0/ HD Audio/ 3 x SATA/ LAN/ GPIO/ LPC bus
- ◆ One PCIe X4/ two PCIe X1/ SMBus (I2C)/ SPI BIOS
- ◆ CD
- ◆ PCIe x 16/ IDE/ PCI

Power Requirements

- ◆ +12V, +5VSB, +3.3V RTC power

Dimensions

- ◆ 95mm (W) x 125mm (L)

Environment

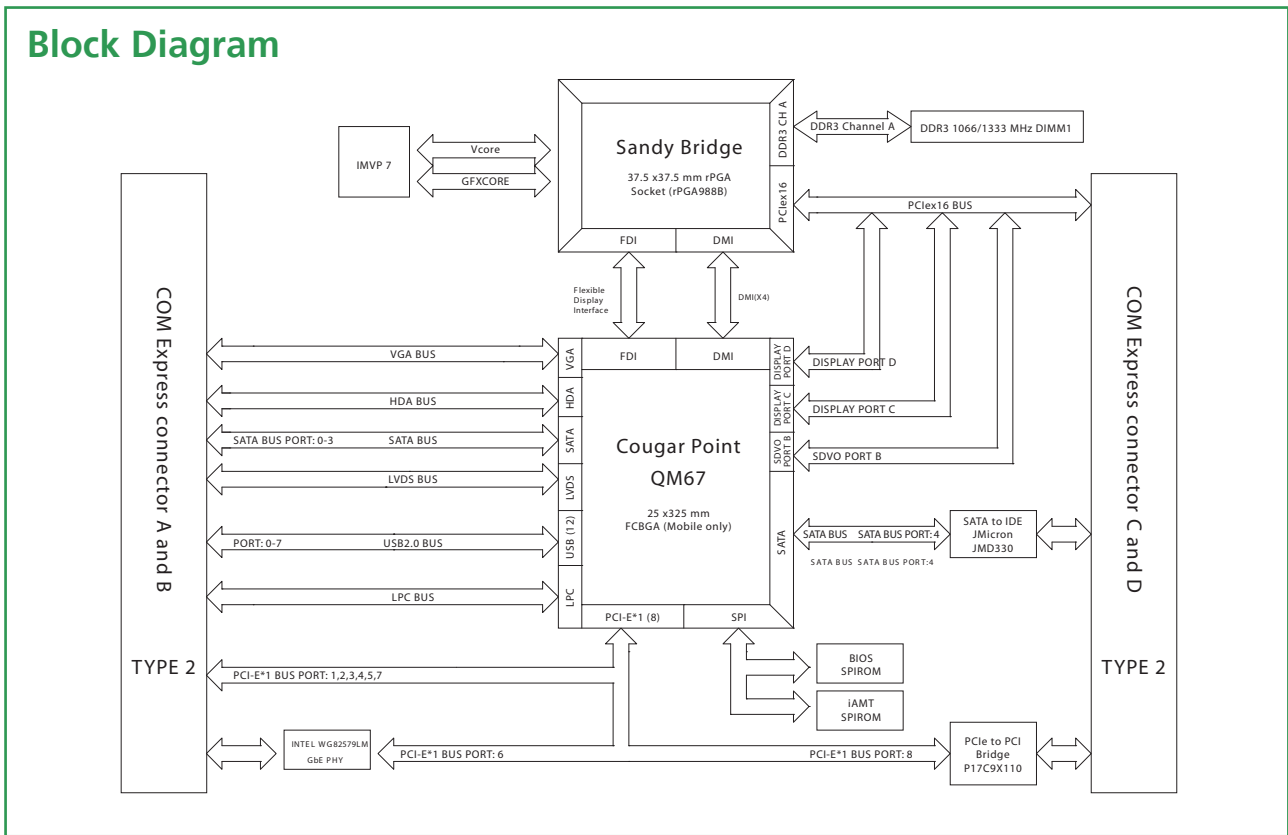
- ◆ Board Level Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity:
 - 10% to 90% (operating, non-condensing)
 - 5% to 95% (non-operating, non-condensing)

Certifications

- ◆ CE approval
- ◆ FCC Class A



Block Diagram



Ordering Information

- ICES 267-SKT (P/N:TBD)**
 Type 2 COM Express Extended Module QM67 for advanced application
- ICES 267L-SKT (P/N:TBD)**
 Type 2 COM Express Extended Module HM65 for advanced application