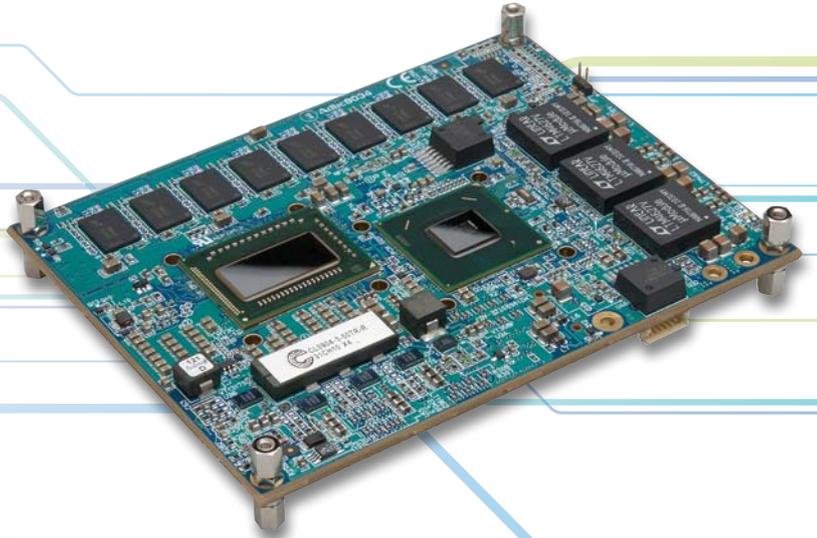


Adbc8034

- Intel Core i7 and Core i5
- High Performance and Low Power
- Direct mounted CPU and RAM
- Three video ports
- Wind River Linux and Windows



FEATURES

High Performance and Low Power – With the Adbc8034 it is possible to match power requirements with computing performance: a rich selection of dual and quad core CPUs based on the Intel Core architecture always delivers the right configuration.

Large Memory – Supporting up to 8GB of DDR3-1333 SDRAM, the Adbc8034 suits even the most memory-hungry applications.

High Reliability – The Adbc8034 has direct-mounted SDRAM memory and CPU, ensuring extremely stable operation; moreover, ECC support adds further reliability.

Feature Rich – The Adbc8034 delivers a broad range of peripherals, including SATA, USB, Gigabit Ethernet, Video, PCI and PCI Express.

Third Video Port – The Adbc8034 employs a modified Type 2 COM Express interface where the EIDE port has been replaced by a third video port supporting SDVO.

Compact design – COM Express Basic Module size (125x 95mm).

The Adbc8034 is a COM Express module that delivers incredible performance and power efficiency: it supports dual and quad core Intel Core CPUs, providing the right power/performance profile for any application.

Designed for maximum reliability, the Adbc8034 supports up to 8GB ECC memory, with memory and CPU soldered directly on the board to provide superior resilience to mechanical stress and vibrations.

With a Basic Module form factor, the Adbc8034 packs a large number of peripherals in a very compact design: Gigabit Ethernet, four SATA, eight USB, three video ports, PCI Express (x16, x4 and two x1) and PCI.

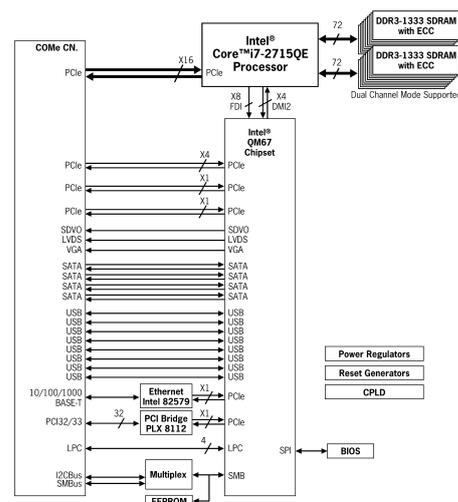
The Adbc8034 simplifies programming and development with support for Windows 7, Windows Embedded Standard 7 and Wind River Linux.



System Architecture

PROCESSOR	<ul style="list-style-type: none"> Intel Core i7-2715QE / 2.1GHz, 45W Intel Core i7-2655LE / 2.2GHz, 25W Intel Core i7-2610UE / 1.5GHz, 17W Intel Core i5-2515E / 2.5GHz, 35W Chipset: Mobile Intel QM67
MEMORY	<ul style="list-style-type: none"> Direct-mounted DDR3-1333 SDRAM up to 8GB, ECC supported Factory option configurations: 1GB/2GB/4GB/8GB Dual channel (1GB supports single channel only) Boot ROM: SPI-FLASH 8MB
COM EXPRESS	<ul style="list-style-type: none"> PICMG COM.0 COM Express Module Base Specification Rev 1.0 Basic Module size (125mm x 95mm) Type 2 Pin layout (SDVO replaces PATA)
SYSTEM I/O	<ul style="list-style-type: none"> PCI Express 2.0: <ul style="list-style-type: none"> - 1 port x16 (2 ports x8 available as factory option), - 1 port x4 (4 ports x1 available as factory option), - 2 ports x1 Graphics: Analog VGA / SDVO / LVDS 1 port each 2x SATA-600 + 2x SATA-300 8x USB 2.0 1x Ethernet 10/100/1000BASE-T 1x PCI(32bit, 33MHz, 3.3V) 1x LPC 1x SMBus 1x I2C Bus 4x GPI + 4x GPO
POWER	<ul style="list-style-type: none"> Supply voltage: <ul style="list-style-type: none"> DC 12V (VCC_12V) 12.0V, ±5%, max 13.4A DC 5V (VCC_5VSBY) 5.0V, ±5%, max 0.8A DC 3V (VCC_RTC) 3.0V, max 6uA
MECHANICAL	<ul style="list-style-type: none"> 125mm (W) x 95mm (L) x 21mm (H) (incl.8mm height for heat spreader and spacers) Heat sink is optionally available Weight: 285g
ENVIRONMENTAL	<ul style="list-style-type: none"> Operating Temperature: 0°C to +60°C Storage Temperature: -10°C to +70°C Humidity: up to 80%RH (no condensation) RoHS compliant

Block Diagram



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