Ultimate Performance of Remote Manageability
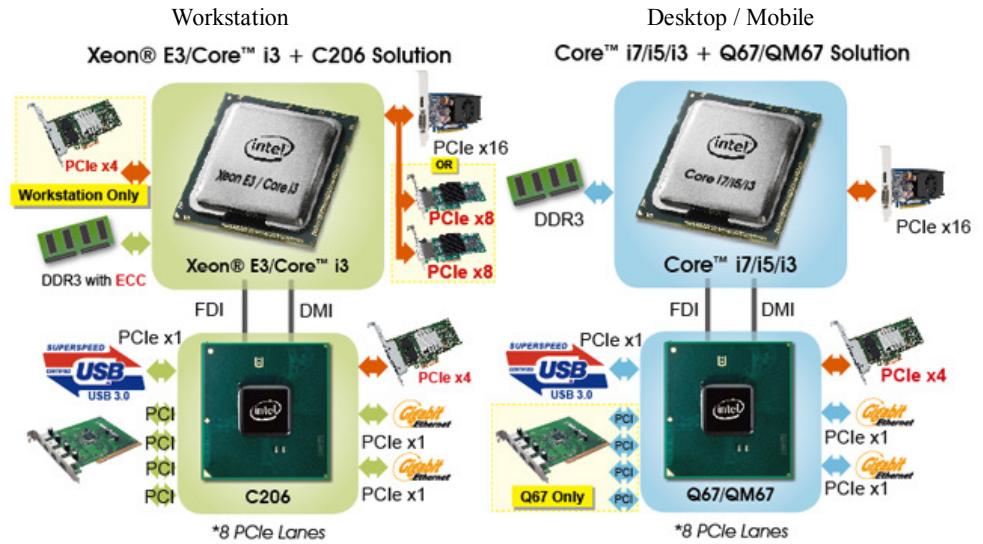
2nd generation Intel® Core™ processor family with 6 series chipset family
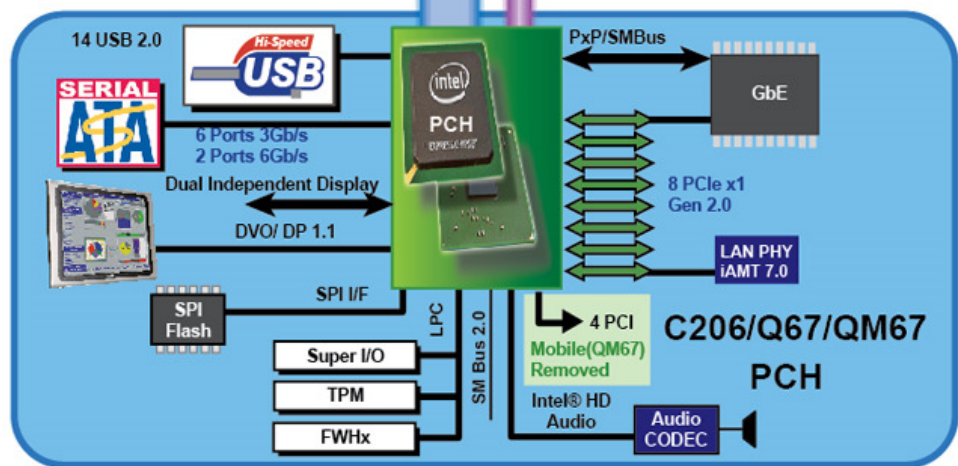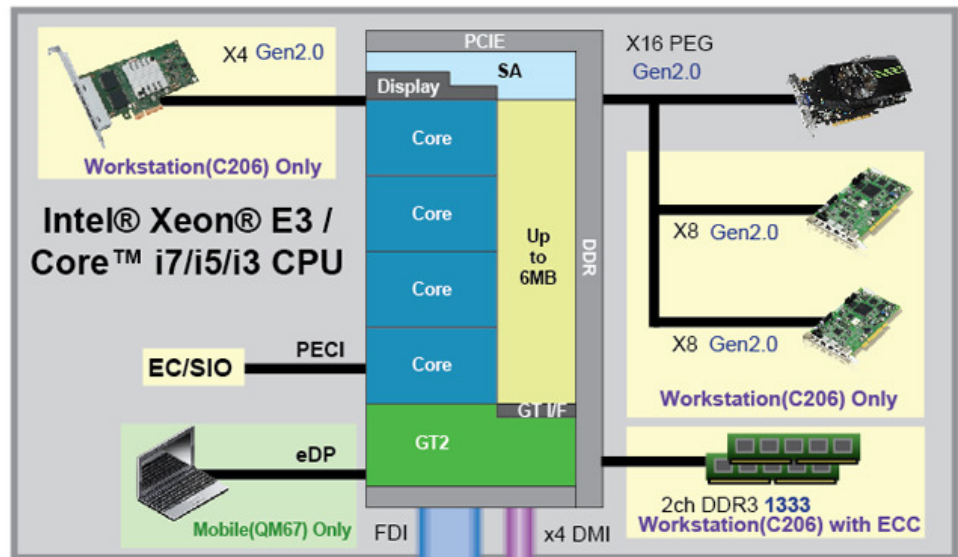
Date: May 17, 2011

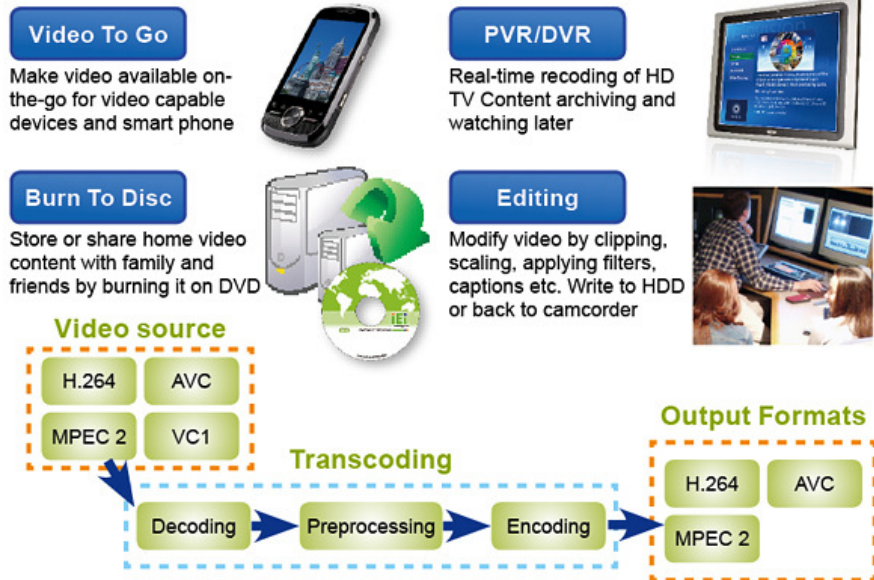2nd generation Intel® Core™ processor family with 6 series chipset family introduction

Zoom in the expansion features of workstation and desktop or mobile platform

Block Diagram

Intel® Xeon® E3 / Core™ i7/i5/i3 CPU

Evolution of Media Usages In Transcoding

Video To Go — Make video available on-the-go for video capable devices and smart phone

PVR/DVR — Real-time recoding of HD TV Content archiving and watching later

Burn To Disc — Store or share home video content with family and friends by burning it on DVD

Editing — Modify video by clipping, scaling, applying filters, captions etc. Write to HDD or back to camcorder

Video source: H.264, AVC, MPEC 2, VC1

Transcoding: Decoding → Preprocessing → Encoding

Output Formats: H.264, AVC, MPEC 2

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➡ 2nd Gen. Solutions   ➡ Block Diagram   ➡ Stereiscopic 3D(S3D)

➡ SATA 6Gb/s Features   ➡ Intel®AMT 7.0 Focus   ➡ Brochure Download 📄

Stereiscopic 3D(S3D)

▶ 3D Graphics Feature Comparison Table

3D Graphics Feature	Core™ i7/i5/i3 with Q57/QM57	Xeon® E3 /Core™ i7/i5/i3 with C206/Q67/QM67

DirectX	10	10.1
OpenGL	2.1	3.0
EU's	12	12
Threads/ EU	6	4
HiZ	Yes	Yes with MSAA depth buffer
MSAA	No	Yes
Intel® Turbo Boost Technology	Yes	Supports next generation of Intel® Turbo Boost Technology

▶ Performance Comparison in 3DMark 2001
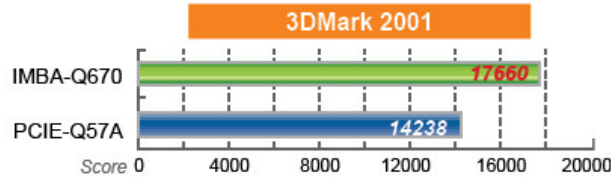
| Platform	PCIE-Q57A	IMBA-Q670
CPU + PCH	Intel® Core™ i5-600 + Q57	Intel® Core™ i5-2400 3.10GHz + Q67
Score of 3DMark 2001	14238	17660

SATA 6Gb/s Features

▶ The Best Choice of Performance Chipset for LGA775 Platform

　◆ The newly released Serial ATA Revision 3.0 specification doubles the current SATA transfer rates to 6Gb/s

　◆ SATA 6Gb/s enables faster read and write speeds.

　◆ Enables end-users to move large amounts of data at faster rate.

　◆ Backward compatible with SATA 1.5 and 3.0 Gb/s.

　◆ RAID cards are designed in SATA 6Gb/s as well.

　◆ The same cables and connectors used for current SATA 1.5 and SATA 3.0 implementations can be used to connect SATA 6Gb/s devices.
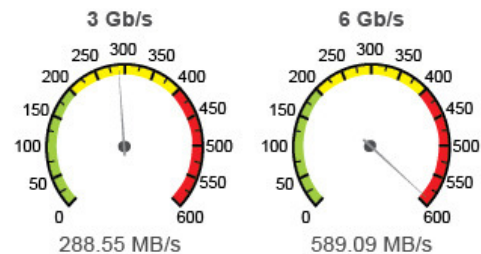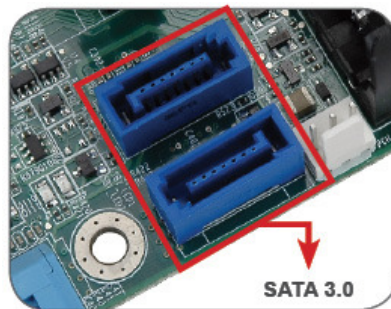
Intel®AMT 7.0 Focus

▶ Ready to use Intel® AMT solution
Less complex and faster to deploy than on previous plaforms

▶ New addition of DASH 1.1 with KVM Support !!

DASH (Desktop and mobile Architecture for System Hardware) is a DMTF (Desktop Management Task) is a DMTF(Desktop Management) standard on requirements for implementing the Desktop and Mobile Architecture for System Hardware.
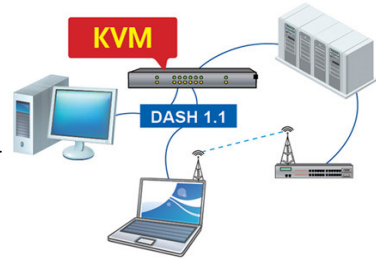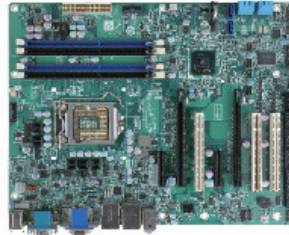

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IEI Products

IMBA-C2060

Datasheet ▸ MORE

IMB-C2060

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IMBA-Q670

Datasheet ▸ MORE

IMB-Q670

Datasheet ▸ MORE

KINO-QM670

Datasheet ▸ MORE

About IEI Technology Corp.

IEI Technology Corp. is a leading industrial computer provider. IEI's products are applied in computer-based applications such as factory automation, computer telephony integration, networking appliances, security, systems, POS systems and in fields like national defense, police administration, transportation, communication base stations and medical instruments. IEI continues to promote its own-brand products as well as serving ODM vertical markets to offer complete and professional service.

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Taiwan	U.S.A	China
IEI Technology Corp.	**IEI Technology USA Corp.**	**IEI Technology SH Corp.**
TEL : 886-2-8691-6798	TEL : +1-909-595-2819	TEL : 86-21-3462-7799
FAX : 886-2-6616-0028	FAX : +1-909-595-2816	FAX : 86-21-3462-7798
Email: sales@ieiworld.com	Email: sales@usa.ieiworld.com	E-mail:sales@ieiworld.com.cn
http://www.ieiworld.com	http://usa.ieiworld.com/	http://www.ieiworld.com.cn

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Taiwan	U.S.A	China
IEI Technology Corp.	**IEI Technology USA Corp.**	**IEI Technology SH Corp.**
TEL : 886-2-8691-6798	TEL : +1-909-595-2819	TEL : 86-21-3462-7799
FAX : 886-2-6616-0028	FAX : +1-909-595-2816	FAX : 86-21-3462-7798
Email: sales@ieiworld.com	Email: sales@usa.ieiworld.com	E-mail:sales@ieiworld.com.cn
http://www.ieiworld.com	http://usa.ieiworld.com/	http://www.ieiworld.com.cn