

ADVANTECH

Haswell Platform

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Enabling an Intelligent Planet

ADVANTECH

New Intel Haswell Platform

AIMB-784, PCE-5128, ASMB-584, ASMB-784



@ Chassis => ACP-4320, ACP-4000, ACP-2320, IPC-7220

For Haswell, You Need to Know...

Platform Schedule

- **Launch on 4th-June**

New architecture on **22nm** process

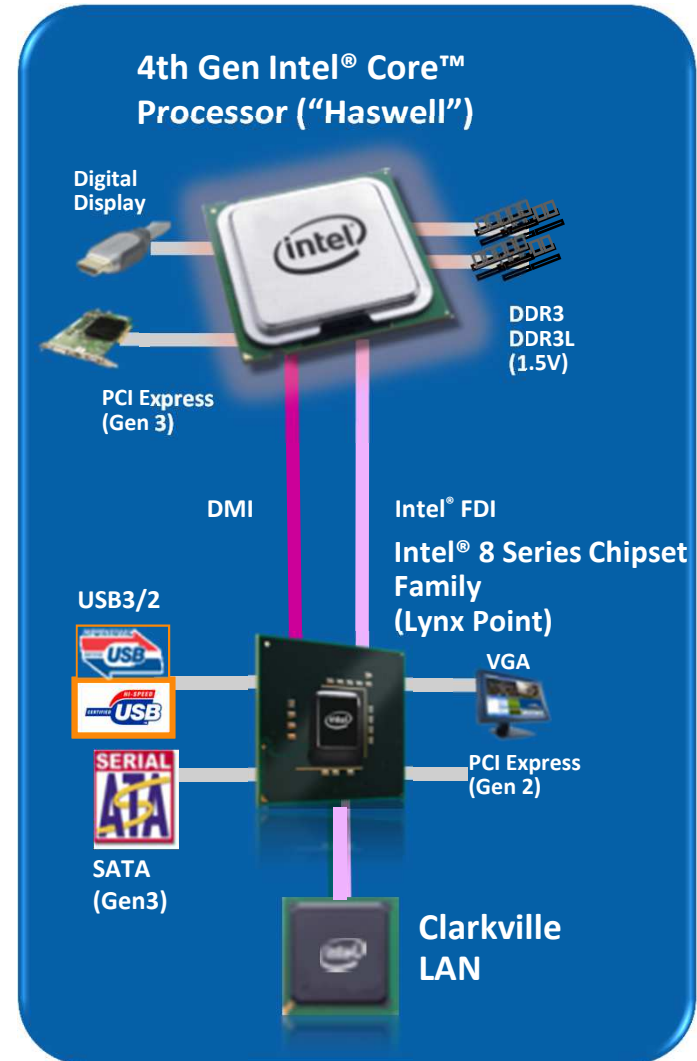
- Improved **CPU performance** Fully Integrated voltage regulator (FIVR)
- New 4th Generation Intel® Core™ Processor Family instructions

Intel processor graphics with **DX11.1 & OCL1.2**

- **Digital display repartition**
- VGA support (via Lynx Point)
- **Up to 3 independent Digital Displays**

2013/2014 platform compatibility

- LGA 1150 socket (2013 / 2014 desktop processors)
- 2 Channel DDR3/DDR3L @ 1.5V (up to 4 DIMMs **at 1600MHz**)
- Quad Core: 84W/65W/45W/**35W**⁽¹⁾; Dual Core: 54W, **35W**⁽¹⁾



Haswell Excellent Graphic Capability

4th Gen Intel® Core™ Processor Graphics – New Features



3D Graphics

- ✓ New API Support: Direct X* 11.1, OpenCL* 1.2, OpenGL* 4.x
- ✓ Fast visual experience & GPGPU throughput
- ✓ More Execution Units: GT1=10EUs, GT2=20EUs, GT3=40EU's (vs. GT1=6EU and GT2=16EU on 3rd Generation Intel® Core™ processors)



Media

- ✓ Fast AVC, MVC (S3D), and MPEG-2 with Full HW Encode
- ✓ JPEG & MJPEG HW Decode
- ✓ Additions to Intel® Clear Video HD Technology: Image Stabilization, Gamut Mapping, Frame Rate Conversion.



Display

- ✓ 3 Independent Symmetrical Display Pipes
- ✓ 3 Display native Collage mode
- ✓ DP1.2 Support with MST (Multi Stream Transport for daisy chaining displays) and up-to 4K resolutions w/HBR2
- ✓ HDMI with 4K in addition to x.v.Color, Deep Color, and 3D

Why Advantech Embedded System?

Premium Service

- 7 Years Life Cycle & Up to 5 Years Warranty
- Revision Control
- Dedicated AE Support

Industrial Reliability

- 0°C~40°C Operation Temperature
- 1G Operation Vibration
- Durable to unstable AC power supply

Leading Technology

- Intel Premium Partner
- Time To Market

Flexibility

- Building Block Design
- BIOS, ID, PCBA Customization

Advantech Haswell Platform Offerings



AIMB-784

Standard ATX Desktop MB

July'13



PCE-5128

Standard PIMIC 1.3 SBC

Sep'13



ASMB-784

Standard ATX Server/WS MB

Aug'13



ASMB-584

Standard micro-ATX Server/WS MB

Jun'13

Advantech AIMB-784



AIMB-784
Standard ATX Desktop MB

- Top-3 Key *F.A.B.*?**
- 1. 6*SATAIII + USB3.0**
 - 2. 2*DVI + 1*VGA + Onboard DP**
 - 3. AMT 9.0 + SUSIAccess**

Advantech PCE-5128



PCE-5128
Standard PIMIC 1.3 SBC

- Top-3 Key *F.A.B.*?**
1. 3 independent displays
✓ **VGA + 2*DVI**
 2. **IPMI-1000** Optional
 3. **Type-A USB2.0 + USB3.0**

Advantech ASMB-784



ASMB-784
Standard ATX Server/WS MB

- Top-3 Key *F.A.B.*?**
- 1. Server-grade Features**
 - 2. 2-LAN or 4-LAN**
 - 3. 2-PClex8 or 1-PClex16**

Advantech ASMB-584

ASMB-584

Standard mirco-ATX Server/WS MB



*Top-3 Key **F.A.B.**?*

1. **Cost Effective** SVR board
2. **Excellent Display**
✓ **2 * DP Port + 1*DVI + 1*VGA**
3. Remote **IPMI** Option

Hot Selling Chassis Sell along with HSW

I Need 4U with Hot-swap Chassis?



I Need 4U Ruggedize for MA?



I Need 2U with Redundancy design?



I Need Wallmount for ATX MB?



1. New Alarm Board SAB-2000
1. Easy Maintain Fan/Filter
2. Quiet FAN Design

Thank You



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&
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