The AMD Radeon™ E8860 MXM Module is a discrete AMD Radeon E8860 GPU integrated with 2GB of high speed GDDR5 memory packaged in an industry-standard form factor MXM module. Available in multiple models with different thermal solutions, the AMD Radeon E8860 MXM Module is ideal for performance-driven systems such as casino gaming, medical imaging, and conventional military/commercial aerospace systems. Multiple display capability makes the AMD Radeon E8860 MXM module an excellent choice for small footprint, compact solutions for digital signage and video wall systems.

NEW GENERATION OF STANDARDS

The AMD Radeon™ E8860 MXM Module is the first AMD Embedded solution built on the new Graphics Core Next (GCN) architecture which supports the latest generation of graphics and compute standards including DirectX® 11.1, OpenGL 4.2, OpenCL™ 1.2, Display Port 1.2, and PCI Express 3.0 to provide the most up-to-date technology today, helping to ensure a strong solution for tomorrow.

NEW LEVEL OF PERFORMANCE

The AMD Radeon E8860 GPU has twice as much memory as the AMD Radeon E6760 GPU, and delivers 92% higher 3D graphics performance per watt. Compared to NVIDIA GeForce GPUs of the same power class, the E8860 delivers 22% higher 3D graphics performance and 61% higher performance per watt.

Supporting thermal design power (TDP) of 37 watts, the AMD Radeon E8860 MXM Module provides the optimal performance-per-watt profile.
NEW SUPERIOR DISPLAY CAPABILITIES

The AMD Radeon E8860 MXM Module provides multi-display flexibility, supporting up to five 3840x2160 @90Hz displays simultaneously in clone mode and extended desktop in static screen mode. In addition, one display of 4096x2160 @60Hz over one HDMI® or DVI 2.0 interface can be supported, providing a superior viewing experience. AMD Eyefinity technology, supported by the AMD Radeon E8860 MMX Module, renders a single high-resolution picture across multiple displays. This flexible, one-to-many system-to-display capability enables ultra-immersive visual experiences in a single small form factor system.

NEW VIDEO PLAYBACK CAPABILITIES

Integrating AMD’s 4th generation video decoder, the AMD Radeon E8860 MXM Module features full dual HD video stream decode for content in H.264/AVCHD, VC-1/MMV, MPEG-2, MVC, and MPEG-4/DivX formats.11

PRODUCT SPECIFICATIONS

Mobile PCI Express® MXM Graphic Module

Version 3.0, Type A

| Module Dimensions L x W x H (mm, Nominal) | No thermal solution – 70 x 82 x 7 mm |
| Finnski – 97 x 82 x 22 mm |
| Heatpipe – 95 x 82 x 40 mm |

THERMAL DESIGN POWER (TDP) 37W

AMD Radeon™ E8860 Graphics Processing Unit

PROCESS TECHNOLOGY 28 nm

GRAPHICS ENGINE / MEMORY CLOCK 625 MHz Engine/1125 MHz Memory

MEMORY 128-bit, 2 GB GDDR5, 72 GB/s

HOST INTERFACE PCI Express® Version 3.0

GRAPHICS
- 10 CU (640 shaders)
- 3DMark® 11P score of 2689
- DirectX® 11.1, Shader Model 5.0, OpenCL 4.2

VIDEO
- 4th Generation Video Decoder
- H.264, VC-1, MPEG-2, MVC, MPEG-4/DivX decode
- Blu-ray 3D & stereo 3D graphics with AMD HD3D technology

COMPUTE
- 768 GFLOPS/s single precision floating point (peak)
- AMD APP technology, OpenCL™ 1.2, DirectCompute™

DISPLAY
Up to 5 displays with AMD Eyefinity multidisplay technology

AUDIO
Integrated HD audio controller (Azalia) & Codec

Display Interfaces (max resolution)

| ANALOG VGA |
| 1x Triple 10-bit RGB DAC, 400 MHz, (2048 x 1536) |

| SINGLE / DUAL-LINK DVI RESOLUTION (W HDCP) |
| 2x single-link DVI, (1600 x 1200) / 2x dual-link DVI, (2560 x 1600), 162 MPixels/s per link |

| DISPLAYPORT |
| 5x DisplayPort 1.2, (3840 x 2400) |

| SINGLE / DUAL-LINK LVDS |
| 1x single-link, (1280 x 1024) / 1x dual-link, (2048x1536) |

| HDMI™ |
| 1x HDMI™ 1.4a, (1920 x 1080p), 148.5 MHz pixel clock |

Software Support

Windows® XP / Windows XP Embedded

Windows 7 / Windows 8/8.1

Linux® (x86)

10. Utilization of PCI Express 3.0 bandwidth requires a mainboard equipped with a PCI Express 3.0 PHY. Not all mainboards feature this technology - check with your component or system manufacturer for specific model capabilities.

11. Part availability is planned for seven years from date of announcement, subject to change without notice. Further support available under contract.

12. AMD does not provide a license/sublicense to any intellectual property rights relating to any to any standards, including but not limited to any audio and/or video codec technologies such as AVC/H.264/MPEG-4, AVC, VC-1, MPEG-2, and DivX/xVid.

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