



## Low power and cost for value oriented embedded applications

## Low Power and Value Oriented Embedded EM91F MXM GPU

Offering a low power and value oriented discrete graphics processor for embedded applications. Built in the MXM (Mobile PCI Express Module) Type A form factor with an MXM 3.0 interface, it delivers a small form factor modular GPU solution for a variety of embedded applications.

The integrated AMD Embedded Radeon™ E6465 GPU delivers high graphics, compute, and multiple display support for applications such as main-stream casino and arcade gaming machines, medical imaging applications, and military/aerospace installations.

AMD ASIC Family	AMD Radeon™ E6465
Process Technology	40nm
GPU Clock (Max)	600 MHz
Bus Interface	x16 PCIe 2.1
Compute Units	2 (128 Shader Processors)
Peak SP FLOPs	154 GFLOPs
DirectX® Compatibility	11
Shader Model	5.0
OpenGL™	4.2
OpenCL™	1.2
Unified Video Decoder (UVD)	UVD 3
Memory	2 GB
Memory Type	64-bit, GDDR5
Mem Clock (max)	800 MHz
Memory Bandwidth (max)	25.6 Gbps
Thermal Design Power	25W
Planned Availability	2021

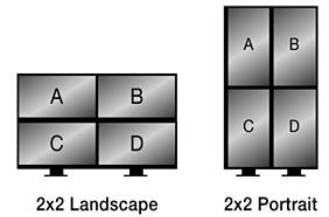
**Low Power Graphics:** Operating at only 25W TDP with 2 compute units for 154 GFLOPs peak single-precision floating-point performance and 2 GB of memory on a 64-bit GDDR5 interface, the AMD Embedded Radeon™ E6465 GPU is ideal for low power or value oriented applications that require a discrete GPU with good graphics performance.

**3D Compatibility:** The 3D graphics engine supports Microsoft® DirectX® 11 and Shader Model 5.0 for 3D graphics compatibility.

**HD Video:** AMD's third generation unified video decoder (UVD) supports decode support of H.264, VC-1, MPEG-2, and MPEG-4 Part 2 (DivX® and Xvid) content.



**Display Support:** Support for up to four independent HD displays can be delivered through the MXM 3.0 interface and the DisplayPort 1.2 and HDMI of the AMD Radeon™ E6465 GPU. Delivering an excellent solution for value oriented, low power, or mobile gaming, digital signage, and industrial applications.



**Compact and Efficient:** The small MXM form factor and low power of the EM91F, with a thermal design power of less than 25W, makes it an ideal fit for compact or small form factor embedded applications that require a discrete GPU. The modular design enables it to lay parallel to the motherboard and provides a rigid connection suitable for rugged designs.



**Modularity and Scalability:** The modularity and scalability afforded through the MXM interface enables a single design to support a variety of GPUs in both MXM Type B and Type A form factors. Interface compatibility with the exceptional performance EA8950MF and E385MF enables a range of performance, power, and price solutions to easily be offered through a single design.

**Long Life:** With a planned product life cycle of up to 5 years, the integrated AMD Embedded Radeon™ E6465 processor delivers a stable lifecycle for industrial and embedded products. Avoiding product obsolescence due to a shortage of critical parts enables this GPU solution to fit the demands of long life, durable and high stability applications and also helps to reduce OEMs development costs by avoiding frequent product revisions. The EM91F MXM module available through HTA is planned to be available and supported through 2021 or longer under contract.

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