



Balanced power and performance for embedded applications

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| AMD ASIC Family | AMD Radeon™ E8870 |
| Process Technology | 28nm |
| GPU Clock (Max) | 900 MHz |
| Bus Interface | x16 PCIe 3.0 |
| Compute Units | 12 (768 Shader Processors) |
| Peak SP FLOPs | 1.4 TFLOPs |
| DirectX® Compatibility | 12 |
| Shader Model | 5.0 |
| OpenGL™ | 4.5 |
| OpenCL™ | 2.0 |
| Unified Video Decoder (UVD) | UVD 4.2 |
| Memory | 4 GB |
| Memory Type | 128-bit, GDDR5 |
| Mem Clock (max) | 1.25 GHz |
| Memory Bandwidth (max) | 96 Gbps |
| Thermal Design Power | 80W |
| Planned Availability | 2021 |

Balanced Power and Performance Embedded ER24F GPU

Delivering a balance between high performance graphics, or compute, and power consumption for embedded applications. Built in the PCI Express form factor with a x16 PCI Express 3.0 interface, it delivers a long life GPU solution for a variety of embedded applications that utilize standard form factor motherboards and chassis.

The integrated AMD Embedded Radeon™ E8870 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.

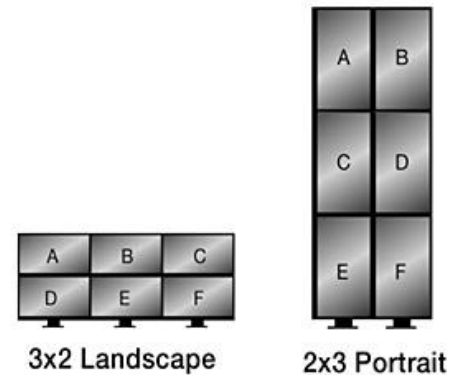
Compute Performance: With 12 high performance compute units delivering up to 1.5 TFLOPs peak single-precision floating-point performance and 4 GB of memory on a high speed 128-bit GDDR5 interface, the AMD Embedded Radeon™ E8870 GPU is great for compute intensive applications such as mid-range ultrasound and UAV applications.

3D Compatibility: The Graphics Core Next advanced 3D graphics engine supports Microsoft® DirectX® 12 and Shader Model 5.0 for superior graphics rendering for gaming applications.

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



Display Support: Support for up to **six** independent **4K** displays can be delivered through six on card Mini DisplayPort connectors with **cable locking connections**. Delivering an excellent solution for multi-headed gaming, digital signage, and medical imaging applications. Also available in a low profile form factor with 4 Mini DisplayPort interfaces as the ER24FL.



Power Efficient Performance: Delivering exceptional performance for a GPU that only consumes up to 120 Watts TDP makes it an excellent fit long life embedded designs.

Standard Form Factor: The standard x16 PCI Express interface and card form factor enable the ER24F to be used with standard PC/workstation or embedded motherboards and chassis.

Long Life: With a planned product life cycle of up to 5 years, the integrated AMD Embedded Radeon™ E8870 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 ER24F MXM module available through HTA is planned to be available and supported through 2021 or longer under contract.

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