



High Performance Embedded ER28FR GPU

Delivering high performance graphics or compute 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™ E8950 GPU delivers exceptional graphics, compute, and multiple displays for applications such as high-end casino and arcade gaming machines, medical imaging applications, and military/aerospace installations.

Exceptional graphics and compute performance for embedded applications

Compute Performance: With 32 compute units delivering up to 3.0 TFLOPs peak single-precision floating-point performance and 8 GB of memory on a high speed 256-bit GDDR5 interface, the AMD Embedded Radeon™ E8950 GPU is great for compute intensive applications such as ultrasound and endoscopy, radar, or machine vision systems.

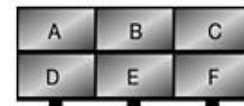
3D Compatibility: The Graphics Core Next advanced 3D graphics engine supports Microsoft® DirectX® 12 and Shader Model 5.0 for superior graphics rendering for gaming applications.

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

AMD ASIC Family	AMD Radeon™ E8950
Process Technology	28nm
GPU Clock (Max)	727 MHz
Bus Interface	x16 PCIe 3.0
Compute Units	32 (2,048 Shader Processors)
Peak SP FLOPs	3.0 TFLOPs
DirectX® Compatibility	12
Shader Model	5.0
OpenGL™	4.5
OpenCL™	2.0
Unified Video Decoder (UVD)	UVD 5
Memory	8 GB
Memory Type	256-bit, GDDR5
Mem Clock (max)	1.25 GHz
Memory Bandwidth (max)	160 Gbps
Thermal Design Power	120W
Planned Availability	2018



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.



3x2 Landscape



2x3 Portrait

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 ER28FR to be used with standard PC/workstation or embedded motherboards and chassis.

Long Life: With a planned product life cycle of up to 3 years, the integrated AMD Embedded Radeon™ E8950 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 ER28FR GPU available through HTA is planned to be available and supported through 2018 or longer under contract.

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