



Product Brief: AMD Embedded Radeon™ E9560 PCIe® Board, AMD Embedded Radeon™ E9550MXM Module, AMD Embedded Radeon™ E9390 PCIe® Board

AMD Ultra-High-Performance Embedded GPUs

Breakthrough Processing Performance for the Most Demanding Graphics Applications

Overview

AMD Radeon™ ultra-high-performance embedded discrete GPUs elevate graphics processing performance to extraordinary heights, supporting 4K high-speed video, 3D visualization, and other compute-intensive graphics applications. Optimized for use in high-end systems spanning casino and arcade gaming, medical imaging, and conventional aerospace applications, AMD ultra-high-performance embedded GPUs enable stunning, immersive visual experiences while supporting efficient thermal design power (TDP) profiles.

Key Benefits

- **Ultra-High-Performance Graphics** – Unleash high-performance graphics with 4K high-speed video decode and encode¹ and seamless 3D visualization support. Enable breathtaking gaming experiences, eye-grabbing digital signage, precision 360-degree medical imaging, and advanced aerospace avionics displays.
- **Efficient Thermal Design Power** – Support even the most compute-intensive graphics applications with processing speeds up to 5.5 TFLOPS at surprisingly efficient TDP profiles 130W and under. Shrink power budget demands without compromising graphics performance.
- **Compact Form Factor** – Conserve valuable board space in small form factor systems including ultrasound machines and cockpit displays. Optimize airflow in dense electronic subsystems for better thermal dissipation.

No matter what your business or customer needs may be, we believe AMD has the right solution for you. With a wide range of solutions – including Embedded Radeon™ and Radeon™ Pro – that address virtually all performance levels and price points, AMD allows you to explore new possibilities never imaginable before. Discuss all your options with your AMD representative.

Product Details

AMD Embedded Radeon™ E9560 PCIe® Board

- “Polaris” Architecture
- 36 Compute Units; 5.7 theoretical TFLOPS
- 8GB GDDR5 Memory; 256bit wide
- <130W Thermal Design Power
- Up to Graphics Clock 1243 MHz Boost
- Up to Memory Clock 1750 MHz Boost
- x16 PCIe® Gen 3
- Support for 4K hardware-accelerated decode and encode¹ (HEVC/H.265 and AVC/H.264)
- Support for up to 4 outputs; DisplayPort™ 1.4
- Microsoft DirectX® 12, OpenGL® 4.5, and OpenCL™ 2.0 capable
- 3 year planned longevity

AMD Embedded Radeon™ E9390 PCIe® Board

- “Polaris” Architecture
- 28 Compute Units; 3.9 theoretical TFLOPS
- 8GB GDDR5 Memory; 256bit wide
- <75W Thermal Design Power
- Up to Graphics Clock 1086 MHz Boost
- Up to Memory Clock 1250 MHz Boost
- x16 PCIe® Gen 3
- Support for 4K hardware-accelerated decode and encode¹ (HEVC/H.265 and AVC/H.264)
- Support for up to 4 outputs; DisplayPort™ 1.4
- Microsoft DirectX® 12, OpenGL® 4.5, and OpenCL™ 2.0 capable
- 3 year planned longevity

AMD Embedded Radeon™ E9550MXM Module

- “Polaris” Architecture
- High-performance Type B Mobile PCI® Express® Module (MXM)
- 36 Compute Units; 5.7 theoretical TFLOPS
- 8GB GDDR5 Memory; 256bit wide
- <95W Thermal Design Power
- Up to Graphics Clock 1243 MHz Boost
- Up to Memory Clock 1250 MHz Boost
- x16 PCIe® Gen 3
- Support for 4K hardware-accelerated decode and encode¹ (HEVC/H.265 and AVC/H.264)
- Support for up to 6 outputs; DisplayPort™ 1.3 and/or HDMI™ 2.0
- Microsoft DirectX® 12, OpenGL® 4.5, and OpenCL™ 2.0 capable
- 6 year planned longevity

Markets



Gaming Machines

Lottery Terminals, VLTs, and AWP's



Digital Signage

Digital Signage, POS/Kiosk, Quick Service Restaurant



Medical Imaging

Portable Medical Equipment, Clinical Workstation, MRI, X-ray, CT



Aerospace

Avionics Cockpit Displays, Unmanned Vehicles, Communications, Command and Control

OPN	Model	Output	Cooling
100-438349	AMD Embedded Radeon™ E9560 PCIe® Board	4 x DisplayPort / HDMI® / DVI	Fansink
100-K00247	AMD Embedded Radeon™ E9550 MXM Type B Module	6 x DisplayPort / HDMI® / DVI	N/A
100-438348	AMD Embedded Radeon™ E9390 PCIe® Board	4 x DisplayPort / HDMI® / DVI	Fansink

HDMI™

AMD.com/embedded

1. HEVC (H.265), H.264, and VP9 acceleration are subject to and not operable without inclusion/installation of compatible HEVC players. GD-81

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