



Product Brief

# AMD Power-Efficient Embedded GPUs

EXCELLENT PROCESSING PERFORMANCE AND LOW POWER CONSUMPTION TO MEET EXACTING THERMAL REQUIREMENTS



## OVERVIEW

AMD Embedded Radeon™ power-efficient embedded discrete GPUs provide an optimal performance-per-watt balance for embedded systems with strict thermal constraints, enabling passive cooling for many designs. Targeted for use in low-power, small form factor, and ruggedized systems, AMD power-efficient embedded GPUs are an excellent fit for applications including mobile and static-screen digital signage, digital casino gaming, retail and kiosks, factory human-machine interfaces, thin client computing, medical displays, and heads-up military and aerospace displays.

## KEY BENEFITS

- **Low Power Consumption** – Boost energy efficiency for power-sensitive systems by leveraging low-power processors enabling Total Board Power (TBP) profiles ranging from 28W to 50W with uncompromising performance up to 1.2 TFLOPS (AMD Embedded Radeon™ E9170). Reduce thermal dissipation, improve cooling efficiency, and help lower total cost of ownership by using less power.
- **Multi-Display Configurability and 4K Graphics** – Power up to five independent displays simultaneously with brilliant 4K graphics<sup>1</sup>. Enable immersive, eye-catching visual experiences that capture and hold viewers' attention.
- **High-Resolution Graphics in a Small Footprint** – Leverage high-quality graphics for small form factor and remotely deployed systems. Maximize space savings with compact systems that fit behind digital signage installations, in airplane cockpit panels, and on mobile hospital workstations.
- **Fanless Designs and Improved Ruggedization** – Employ passive cooling to conserve space and help improve system reliability. Utilize sealed, ventless enclosures that protect against moisture and airborne particulates in harsh operating environment.

## AMD Embedded Radeon™ E9170 Series

## PRODUCT DETAILS

### AMD Embedded Radeon™ E9170 Series (MCM)

- 14nm FinFET “Polaris” architecture
- Eight Compute Units<sup>2</sup>; 1.2 TFLOPS
- 2 or 4GB GDDR5 Memory; 64- or 128-bit wide
- 35-50W Total Board Power; 35W Total Graphics Power for MCM
- Graphics Clock 1124 or 1219MHz
- Memory Clock 1500MHz
- AMD Eyefinity technology for up to five display outputs<sup>3</sup>
- 4K HEVC/H.265 and AVC/H.264 decode and encode<sup>4</sup>; 4K support at 60Hz
- Microsoft DirectX® 12 capable

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1. Number of displays supported varies by model.
2. Discrete AMD Radeon™ and FirePro™ GPUs based on the Graphics Core Next architecture consist of multiple discrete execution engines known as a Compute Unit (“CU”). Each CU contains 64 shaders (“Stream Processors”) working together. GD-78
3. Learn more about AMD Eyefinity technology at [amd.com/eyefinity](http://amd.com/eyefinity).
4. HEVC acceleration is subject to inclusion/installation of compatible HEVC players. GD-81

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