Product Brief

AMD Embedded G-Series LX Family SOCs

Industry-Leading Price/Performance Profile, and Successor to the AMD Geode Family

**PRODUCT OVERVIEW**

AMD Embedded G-Series LX Family SOCs are distinguished by their highly-competitive price/performance profiles and low power attributes. Providing improved performance compared to low cost, legacy AMD Geode processors, AMD Embedded G-Series LX Family SOCs provide a compelling upgrade path from the Geode platform.

**KEY BENEFITS**

**Scalability** – Pin compatibility with the higher performance, 1st & 2nd Gen AMD Embedded G-Series SOC devices allow design continuity and the ability to right size your solution.

**Ultra-Competitive Price/Performance** – The 64-bit x86 AMD Embedded G-Series LX Family SOCs meet the compute and multimedia processing performance needs of mainstream embedded applications at pricing typically associated with 32-bit ARM solutions.

**Energy Efficiency** – AMD Embedded G-Series LX Family SOCs support a wide range of thermal design profiles (TDPs) spanning from 6W to 15W, helping ensure an optimal price-per-watt balance.

**Highly Integrated I/O** – AMD Embedded G-Series LX Family SOCs integrate two x86 “Jaguar” CPU cores with 1MB of shared L2 cache, a Radeon™ GPU R1E compute unit, and an I/O controller on a single die.

**Multi-Display Support** – AMD Embedded G-Series LX Family SOCs support up to two display interfaces, enabling flexible multi-display configurability.

**Supply Longevity** – Planned longevity for AMD Embedded G-Series LX Family SOCs extends to up to 10 years, providing a long-lifecycle support roadmap.

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**AMD Embedded G-Series LX Family SOCs** provide pin and software stack compatibility with the 1st and 2nd Gen AMD Embedded G-Series SOCs (FT3 class), enabling you to maintain design continuity, streamline development cycles, and scale your designs from low-end to high-end offerings. Discuss all your options with your AMD representative.
TARGET APPLICATIONS

AMD Embedded G-Series LX Family SOCs are designed to meet the processing requirements of a wide range of embedded applications, including thin client, digital signage, retail POS, industrial/automation, military/aerospace, and networking/communications applications.

KEY FEATURES

- Flexible scalability across AMD FT3 class offerings including AMD Embedded G-Series ‘eKabin’ and ‘Steppe Eagle’ SOCs
- 2X “Jaguar” x86 cores with 1MB shared L2 cache
- AMD Radeon™ R1E GCU graphics (1CU)
- Single channel 64-bit DDR3 memory
- Multi format encode and decode
- Support for up to two display interfaces via HDMI 1.4, DisplayPort 1.2, Embedded DisplayPort 1.4
- Support for DirectX® 11.2
- High performance, integrated Controller Hub supports:
  - PCIe® Gen 2 4x1
  - 2 USB3, 4 USB2 ports
  - 2 SATA 2.0/3.0 ports

G-SERIES LX FAMILY SOC

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<th>Model</th>
<th>OPN</th>
<th>Radeon™ Brand</th>
<th>Core Cores</th>
<th>TDP</th>
<th>L2 Cache</th>
<th>CPU Clock Speed</th>
<th>Radeon™ Clock Speed</th>
<th>MAX DDR3 Speed</th>
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