



Krater RV1000

Fanless embedded computer for Digital Signage applications with AMD Ryzen™ Embedded R1000 / V1000 family of SoCs

Multi-Display Digital Signage Solution



HIGHLIGHTS



CPU
AMD Ryzen™ Embedded V1000 and R1000 processors



GRAPHICS
AMD Radeon™ Vega GPU with up to 8 Compute Units



CONNECTIVITY
2x GbE; M.2 WWAN and WLAN slots; 2x USB 3.0; 2x Multistandard Serial Ports



MEMORY
Up to 32GB DDR4 Dual Channel Memory on SO-DIMM modules



MAIN FIELDS OF APPLICATION



Coffee &
Vending



Smart Devices

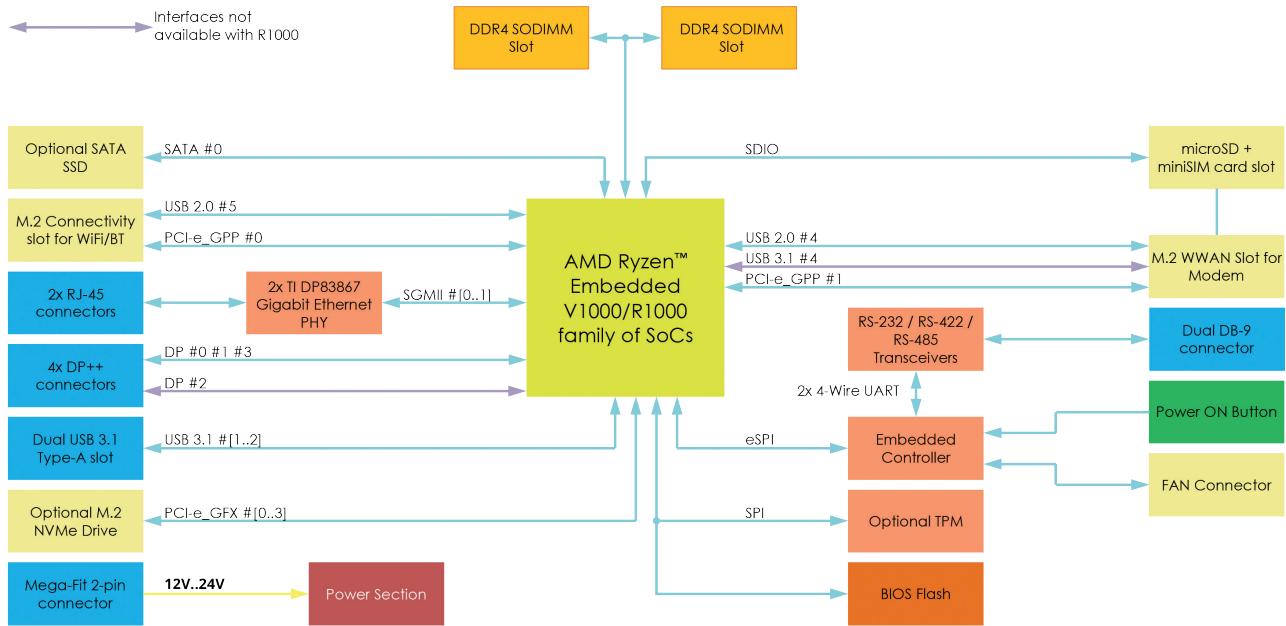


Digital Signage

FEATURES

Processor	AMD Ryzen™ Embedded V1000 family SoCs: AMD Ryzen™ Embedded V1605B with GPU AMD Radeon™ Vega 8, Quad Core Dual Thread @ 2.0GHz (3.6 Boost), TDP 12-25W AMD Ryzen™ Embedded V1202B with GPU AMD Radeon™ Vega 3, Dual Core Dual Thread @ 2.3GHz (3.2 Boost), TDP 12-25W	Networking	2 x Gigabit Ethernet ports Internal M.2 WWAN slot (Socket 2 Key B Type 2242/3042) for Modems Internal M.2 Connectivity Slot (Socket 1 Key E Type 2230) for WiFi / BT modules
	AMD Ryzen™ Embedded R1000 family SoCs: AMD Ryzen™ Embedded R1606G with GPU AMD Radeon™ Vega 3, Dual Core Dual Thread @ 2.6GHz (3.5 Boost), TDP 12-25W AMD Ryzen™ Embedded R1505G with GPU AMD Radeon™ Vega 3, Dual Core Dual Thread @ 3.25GHz (3.6 Boost), TDP 12-25W		USB 2 x USB 3.0 Type-A sockets on Rear Panel Serial Ports 2x RS-232/RS-422/RS-485 ports on DB-9 connectors Other Interfaces Externally accessible miniSIM Slot for the optional M.2 Modem Power Button with Power On Status LED on Front Panel Optional TPM 1.2 or 2.0 on-board
System Memory	Up to 2x DDR4 SODIMMs Available memory sizes: 4GB, 8GB, 16GB Single Channel 8GB, 16GB, 32GB Dual Channel	Power Supply 2-poles Mega-Fit connector +12V _{DC} ÷ +24V _{DC}	Operating System Optional preinstalled OS: Microsoft® Windows 10 IoT Enterprise (64bit) Linux
Graphics	GPU AMD Radeon™ VEGA with up to 11 Compute Units DirectX® 12 supported H.265 (10-bit) decode and 8-bit video encode VP9 decode 4 independent displays supported (3 with R1000 SoCs)	Operating Temperature 0°C ÷ +50°C	Dimensions 179.4 (W) x 109 (D) x 57.8 (H) mm
Video Interfaces	4x DP++ connectors (only 3 working with R1000 SoCs)	Optional accessories VESA standard 100x100 Wall mount plate, dimensions 151 (W) x 111 (D) x 5.08 (H) mm	
Video Resolution	Up to 4096 x 2160		
Mass Storage	Optional M.2 NVMe module (available sizes: 250GB, 500GB, 1TB, 2TB) Optional SATA SSD (available sizes: 250GB, 500GB, 1TB, 2TB)		

BLOCK DIAGRAM



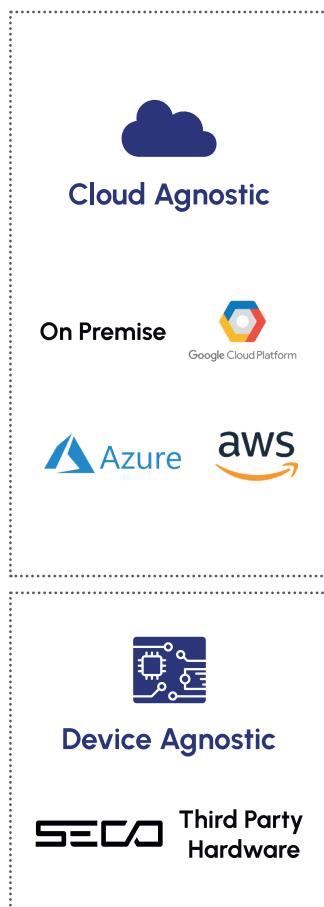
Streamline and expedite your edge computing implementations

EDGEHOG OS

A flexible operating system that adapts to your needs, thanks to the customization tool and Docker support. Reliability and security are built-in through a dual-partition system and native integration with Exein's robust AI-based protection.

DATA ORCHESTRATION

Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.



DEVICE MANAGER

Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

PORTAL

Analyze data from remote devices, customize the user experience with applications tailored to user needs, and manage user rights, company access, and tenant privileges.

SERVICES

Custom Apps



Device Manager

»Edgehog

Data Orchestration

»Astarte

Portal

EDGEHOG OS

Containers

SDK



Double Partition

Device Manager Agent

Incremental Updates

Immutable OS

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