



## 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



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



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



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



### MAIN FIELDS OF APPLICATION



Coffee & Vending



Smart Devices



Digital Signage

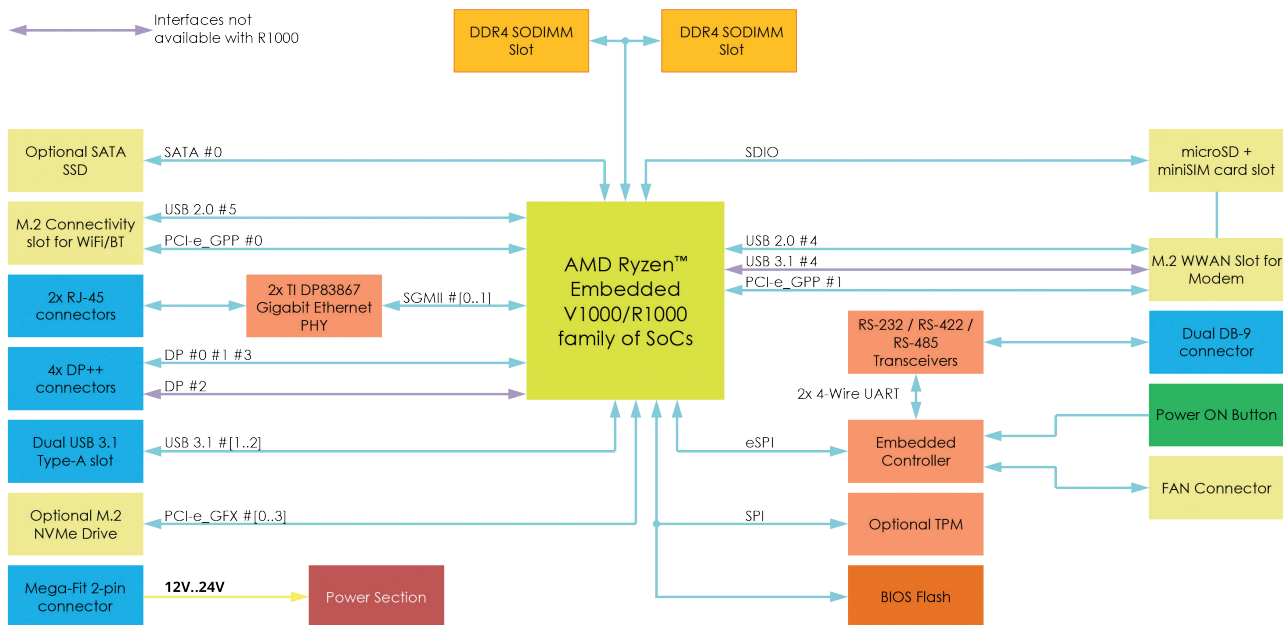
### FEATURES

	<b>Processor</b>	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		<b>Networking</b>	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		<b>USB</b>	2 x USB 3.0 Type-A sockets on Rear Panel
	<b>System Memory</b>	Up to 2x DDR4 SODIMMs Available memory sizes: 4GB, 8GB, 16GB Single Channel 8GB, 16GB, 32GB Dual Channel		<b>Serial Ports</b>	2x RS-232/RS-422/RS-485 ports on DB-9 connectors
				<b>Other Interfaces</b>	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
	<b>Graphics</b>	CPU 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)		<b>Power Supply</b>	2-poles Mega-Fit connector +12V <sub>DC</sub> ÷ +24 V <sub>DC</sub>
				<b>Operating System</b>	Optional preinstalled OS: Microsoft® Windows 10 IoT Enterprise (64bit) Linux
	<b>Video Interfaces</b>	4x DP++ connectors (only 3 working with R1000 SoCs)		<b>Operating Temperature</b>	0°C ÷ +50°C
				<b>Dimensions</b>	179.4 (W) x 109 (D) x 57.8 (H) mm
	<b>Video Resolution</b>	Up to 4096 x 2160		<b>Optional accessories</b>	VESA standard 100x100 Wall mount plate, dimensions 151 (W) x 111 (D) x 5.08 (H) mm
	<b>Mass Storage</b>	Optional M.2 NVMe module (available sizes: 250GB, 500GB, 1TB, 2TB)			
		Optional SATA SSD (available sizes: 250GB, 500GB, 1TB, 2TB)			

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Embedded R1000 / V1000 family of SoCs

## 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

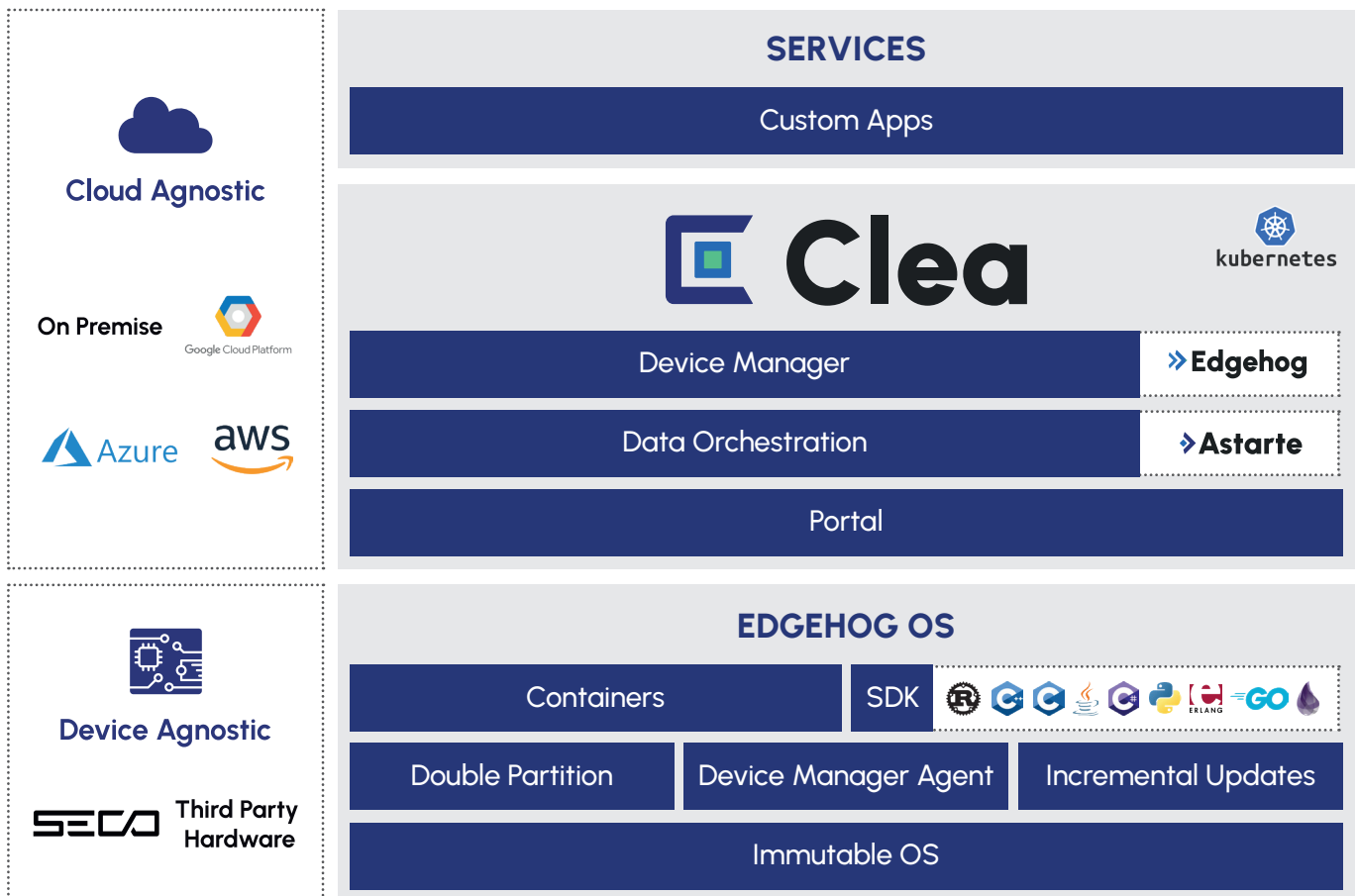
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

## 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.



Scan to know more about our solution

EDGEHOG OS



CLEA DOCS

