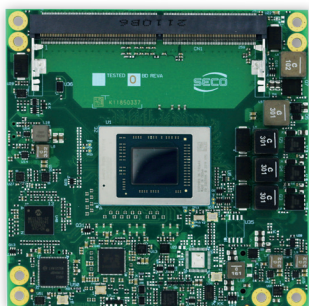# COM EXPRESS®

SOM-COMe-CT6-V2000

COM Express® 3.0 Type 6 Compact Module with AMD Ryzen™ Embedded V2000 SoCs

High performance AMD Ryzen™ core on COM Express® compact for graphics and compute demanding edge applications

HIGHLIGHTS

CPU
Embedded Ryzen™ V-Series V2000 FP6 Platform with "Zen2" CPU and Radeon™ GPU Cores

GRAPHICS
Integrated AMD Radeon™ GPU with up to 7 Compute Units

CONNECTIVITY
1x GbE; 1x SuperSpeed USB 10Gbps; 3x SuperSpeed USB 5Gbps; 8x USB 2.0; 8x PCI-e x1 Gen3; PEG x8 Gen3

MEMORY
Two DDR4 SO-DIMM Slots supporting DDR4-3200 ECC and non-ECC memory, up to 64GB

MAIN FIELDS OF APPLICATION

Coffee & Vending
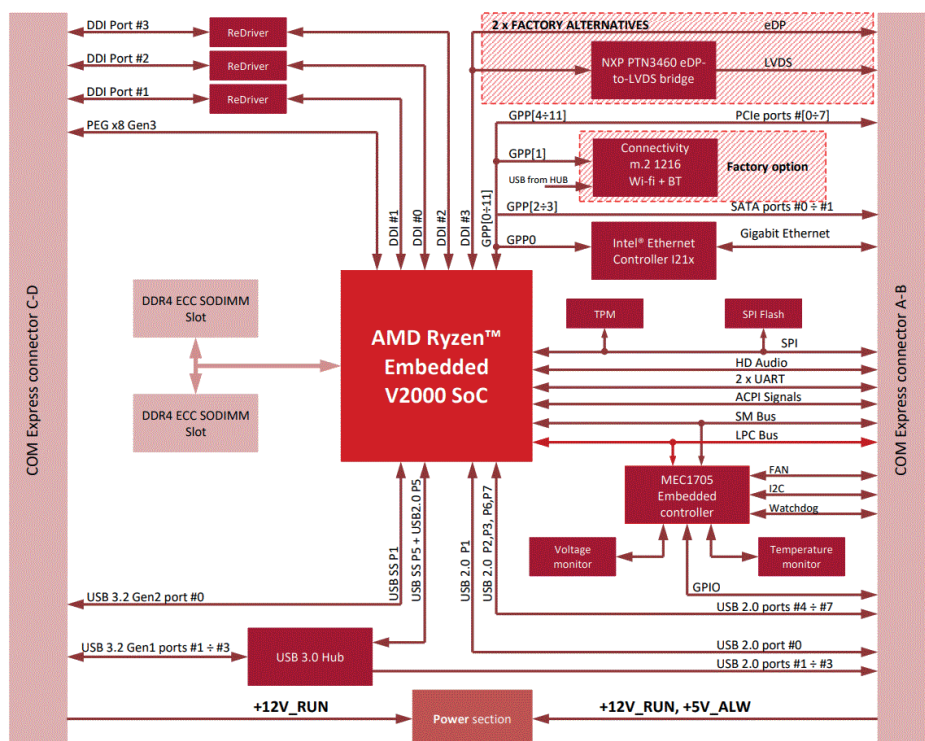
Medical

Safety & Surveillance

Digital Signage

FEATURES

Processor	**AMD Ryzen™ Embedded V2748** with AMD Radeon™ Graphics with 7 CU, Eight Core Dual Thread @ 2.9GHz (4.15 Boost), TDP 35-54W **AMD Ryzen™ Embedded V2718** with AMD Radeon™ Graphics with 7 CU, Eight Core Dual Thread @ 1.7GHz (4.15 Boost), TDP 10-25W **AMD Ryzen™ Embedded V2546** with AMD Radeon™ Graphics with 6 CU, Six Core Dual Thread @ 3GHz (3.95 Boost), TDP 35-54W **AMD Ryzen™ Embedded V2516** with AMD Radeon™ Graphics with 6 CU, Six Core Dual Thread @ 2.1GHz (3.95 Boost), TDP 10-25W	**USB**	1x SuperSpeed USB 10Gbps host port 3x SuperSpeed USB 5Gbps host ports 8x 2.0 host ports
		PCI-e	8x PCI-e x1 Gen3 lanes PCI-express Graphics (PEG) x8 Gen3
		Audio	HD Audio interface
		Serial Ports	2x UARTs
		Other Interfaces	SPI, I2C, SM Bus, thermal management, FAN management LPC bus Optional TPM 2.0 on-board LID#/SLEEP#/PWRBTN#, Watchdog 4x general purpose input (GPI), 4x general purpose input (GPI)
Memory	Two DDR4 SO-DIMM Slots supporting DDR4-3200, ECC and non-ECC memory, up to 64GB		
Graphics	AMD Radeon™ Graphics GPU with up to 7 Compute Units Up to 4 independent displays supported Support DirectX 12, OpenGL 4.6, OpenCL 2.1 and Vulkan HW accelerated video decode VP9 (8 and 10 bits), H.264/AVC (8bits), H.265/HEVC (8 and 10 bits), JPEG HW accelerated video encode H.264/AVC (8bits), H.265/HEVC (8 and 10 bits), JPEG	**Power Supply**	+12V$_{DC}$ ± 10%, +5V$_{SB}$ (optional), +3VRTC (optional)
		Operating System	Microsoft® Windows 10 Linux
Video Interfaces	Up to 3 x Digital Display Interfaces (DDIs), supporting DVI, DP 1.4, HDMI® 2.1 1 x eDP 1.3 or single/dual-channel 18-/24-bit LVDS interface	**Operating Temperature***	0°C to +60°C (commercial version)
Video Resolution	eDP, DP up to 4096x2160 @60Hz 10b with DSC 1.2 (HBR3) HDMI® up to 4096x2160 @ 60Hz LVDS up to 1920x1200 @ 60Hz	**Dimensions**	95 x 95 mm (COM Express® Compact Form factor, Type 6 pinout)
Mass Storage	2 x S-ATA Gen3 Channels		
Networking	Gigabit Ethernet interface with Intel® i21x GbE controller Optional M.2 1216 Wi-Fi 802.11ac and BTLE 5.0 on-board		

*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the packaged system to keep the heatspreader temperature in the range indicated.

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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.

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.

DATA ORCHESTRATION

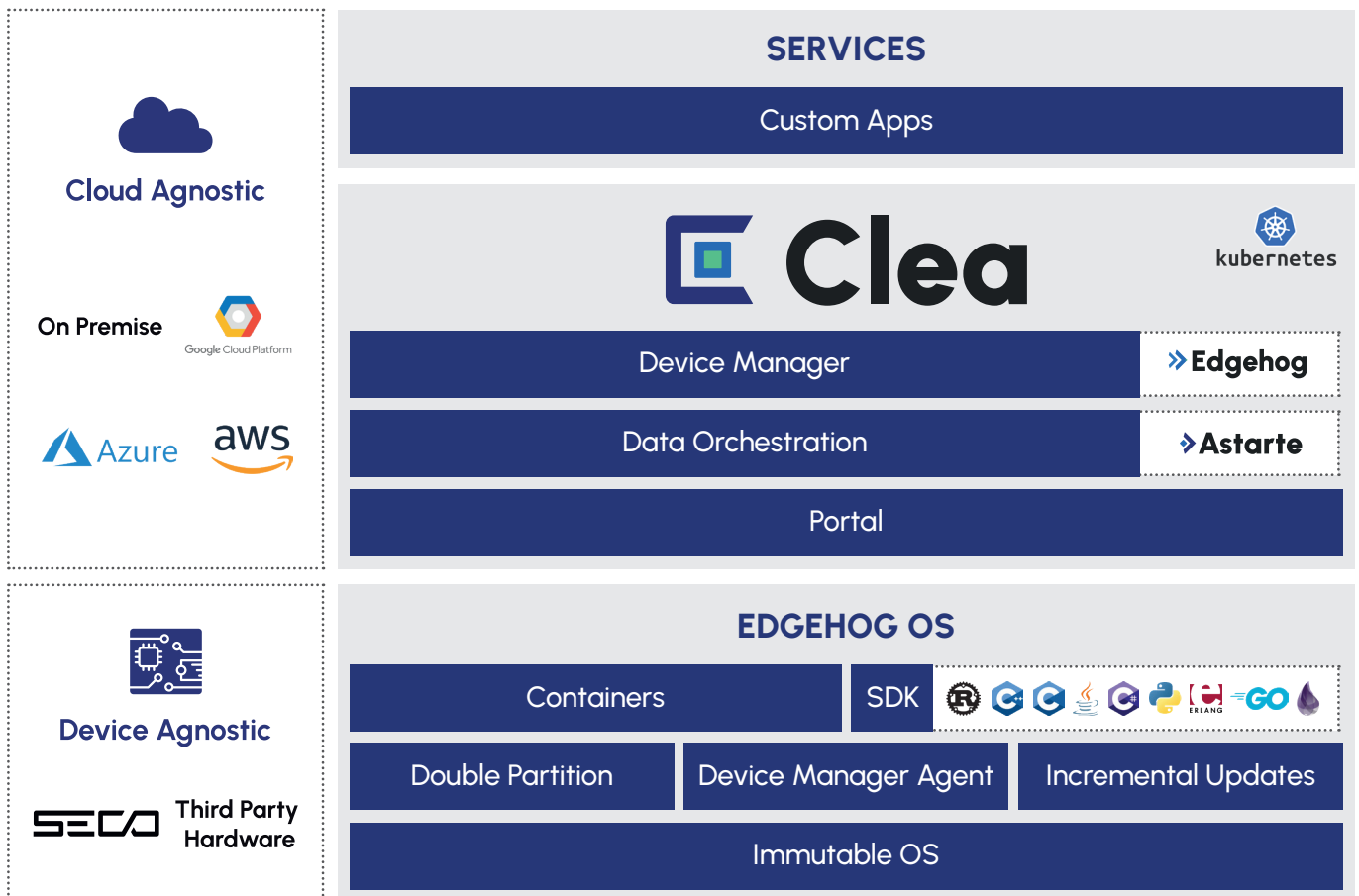Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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.

Cloud Agnostic

On Premise
Google Cloud Platform

Azure · aws

Device Agnostic

SECO **Third Party Hardware**

SERVICES

Custom Apps

Clea · kubernetes

Device Manager · » Edgehog

Data Orchestration · › Astarte

Portal

EDGEHOG OS

Containers · SDK

Double Partition · Device Manager Agent · Incremental Updates

Immutable OS

Information subject to change. Please visit www.edge.seco.com to find the latest version of this datasheet

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