FANLESS EMBEDDED COMPUTERS

Palladio 400 RPL

Modular fanless embedded PC with 13th Gen Intel® Core™ processors

Next-Gen industrial PC with high modularity and multiple expansion ports, enabling powerful AI applications



HIGHLIGHTS

CPU
13th Gen Intel® Core™ i3/i5/i7/i9 Processors

CONNECTIVITY
2x 2.5 GbE LAN (2x PoE optional)

GRAPHICS
Up to Intel® UHD graphics 770 (processor dependent)

MEMORY
Up to 32 GB SO-DIMM DDR4 2666

MAIN FIELDS OF APPLICATION

Medical | Safety & Surveillance | Industrial Automation | Smart Devices | Smart Buildings & Smart Cities | Digital Signage

FEATURES

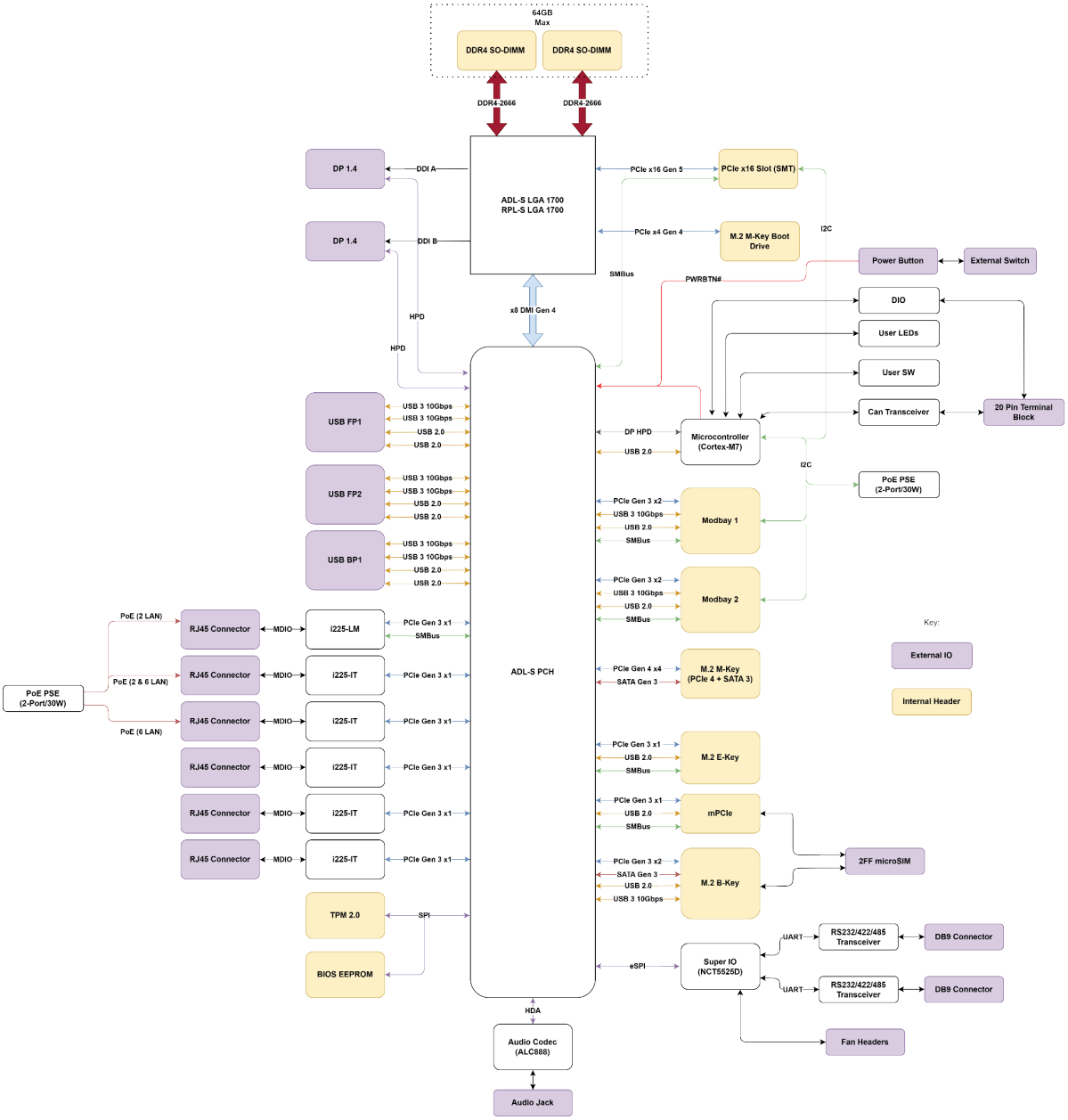
Processor	13th Gen Intel® Core™ Processors (codename: Raptor Lake-P): • **Intel® Core™ i3-13100E**, 3.3~4.4 GHz, 4 processor cores, 8 threads - 60 W TDP • **Intel® Core™ i3-13100TE**, 2.1~4.1 GHz, 4 processor cores, 8 Threads - 35 W TDP • **Intel® Core™ i5-13500E**, 2.4~4.6 GHz, 14 processor cores, 20 Threads - 65 W TDP • **Intel® Core™ i5-13500TE**, 1.3~4.5 GHz, 14 processor cores, 20 Threads - 35 W TDP • **Intel® Core™ i7-13700E**, 1.9~5.1 GHz, 16 processor cores, 24 Threads - 65 W TDP • **Intel® Core™ i7-13700TE**, 1.1~4.8 GHz, 16 processor cores, 24 Threads - 35 W TDP • **Intel® Core™ i9-13900E**, 1.8~5.2 GHz, 24 processor cores, 32 Threads - 65 W TDP • **Intel® Core™ i9-13900TE**, 1.0~5.0 GHz, 24 processor cores, 32 Threads - 35 W TDP
Memory	Up to 32 GB SO-DIMM DDR4 2666 (Optional)
Graphics	Up to Intel® UHD graphics 770 (processor dependent)
Video Interfaces	2x DisplayPort
Video Resolution	Up to 4K @60 Hz
Mass Storage	1x M.2 2280 (SATA) 1x M.2 2280 (PCIe Gen 4 x4; SATA) 2x SATA 2.5" drives (optional hot-swap) 1x M.2 2280 (PCIe Gen 4 x4)
Networking	Intel® embedded M.2 2230 802.11ac Wi-Fi BT 5.1 card with cables (optional) Dual-band wireless 6.3" terminal PIFA antenna (optional) 2x 2.5 GbE LAN (2x PoE optional)
USB	6x USB 3.2 Gen 2 ports

Audio	1x 3.5mm audio
Serial Ports	2x COM RS-232/422/485 ports
Other Interfaces	5-Pin terminal block power input (12~48 VDC) 2x ModBay expansion 7-9.5mm (optional) 1x GPIO terminal block (DIO, CAN, Ext. Switch) 2x 3FF Micro-SIM 1x power button 1x external fan connector 2x 2.5" hot-swap drives (optional)
Optional accessories	4x RJ45 GbE LAN add-on kit 4x USB 3.0 add-on kit 2x RS-232 COM add-on kit
Power Supply	12~48 VDC 20~48 VDC (when configured with PCIe expansion 70W or above)
Operating System	Compatible with Linux, Windows
Security	PTT in BIOS TPM (optional) Watchdog timer
Operating Temperature*	-40 to 70°C (w/ 35W CPU) -40 to 50°C (w/ 65W CPU)
Dimensions	240 x 82 x 267 mm

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

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BLOCK DIAGRAM



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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

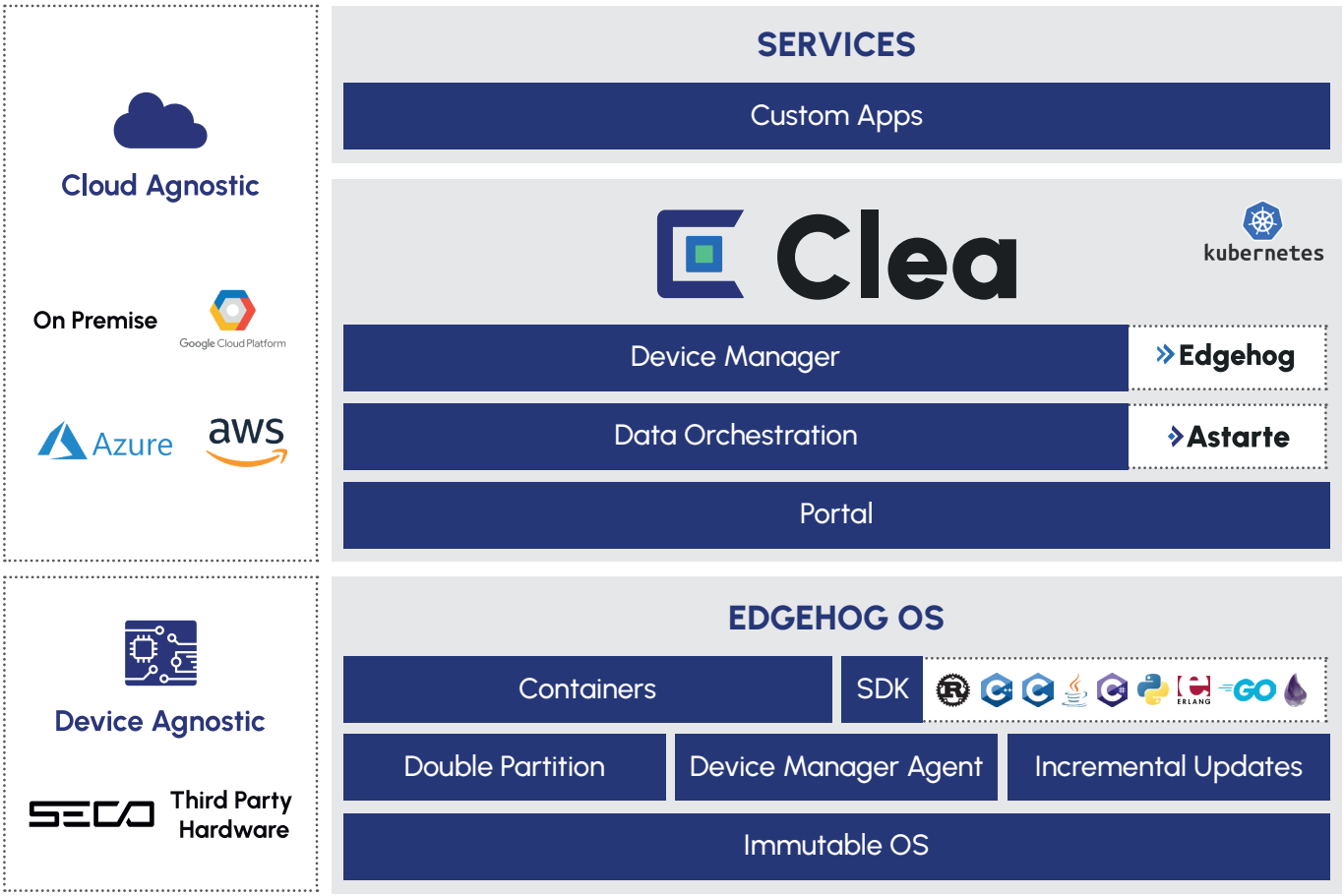
Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

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.



Scan to know more about our solution

EDGEHOG OS

CLEA DOCS

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