

conga-aCOM/cRLP



aReady.COM

- Based on conga-HPC/cRLP-i5-1340PE
- High-Performance configuration with 2 pre-configured virtual machines
- Real-Time Linux OS on 2 Cores
- Ubuntu Pro running on 10 Cores
- Incl. active cooling solution with heatpipes

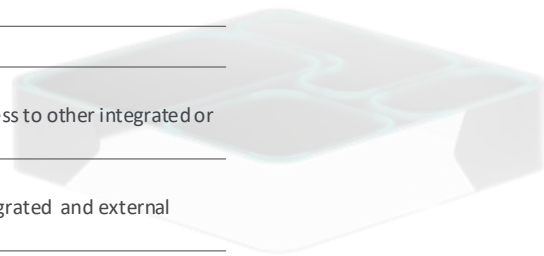
Operating Systems

Real-Time Linux	RTS Real-Time Linux reference installation with Kernel 6.1 (Realtime-Preempt, longterm)
Ubuntu Desktop	Ubuntu 22.04 LTS, "Ubuntu Pro" subscription including 10 years security coverage



Virtualization

Hypervisor	RTS Real-Time Hypervisor, pre-configured
Partitioning	2x virtual machines (VM), 1x Real-Time, 1x General Purpose
Real-Time VM	Running on 2 P-Cores with fixed frequency Physical device access: NVMe SSD partition, 1x UART, 1x ethernet. Access to other integrated or external devices configurable
General-Purpose VM	Running on 2 P-Cores and 8 E-Cores Physical device access: NVMe SSD partition, 1x UART, 1x ethernet, integrated and external devices



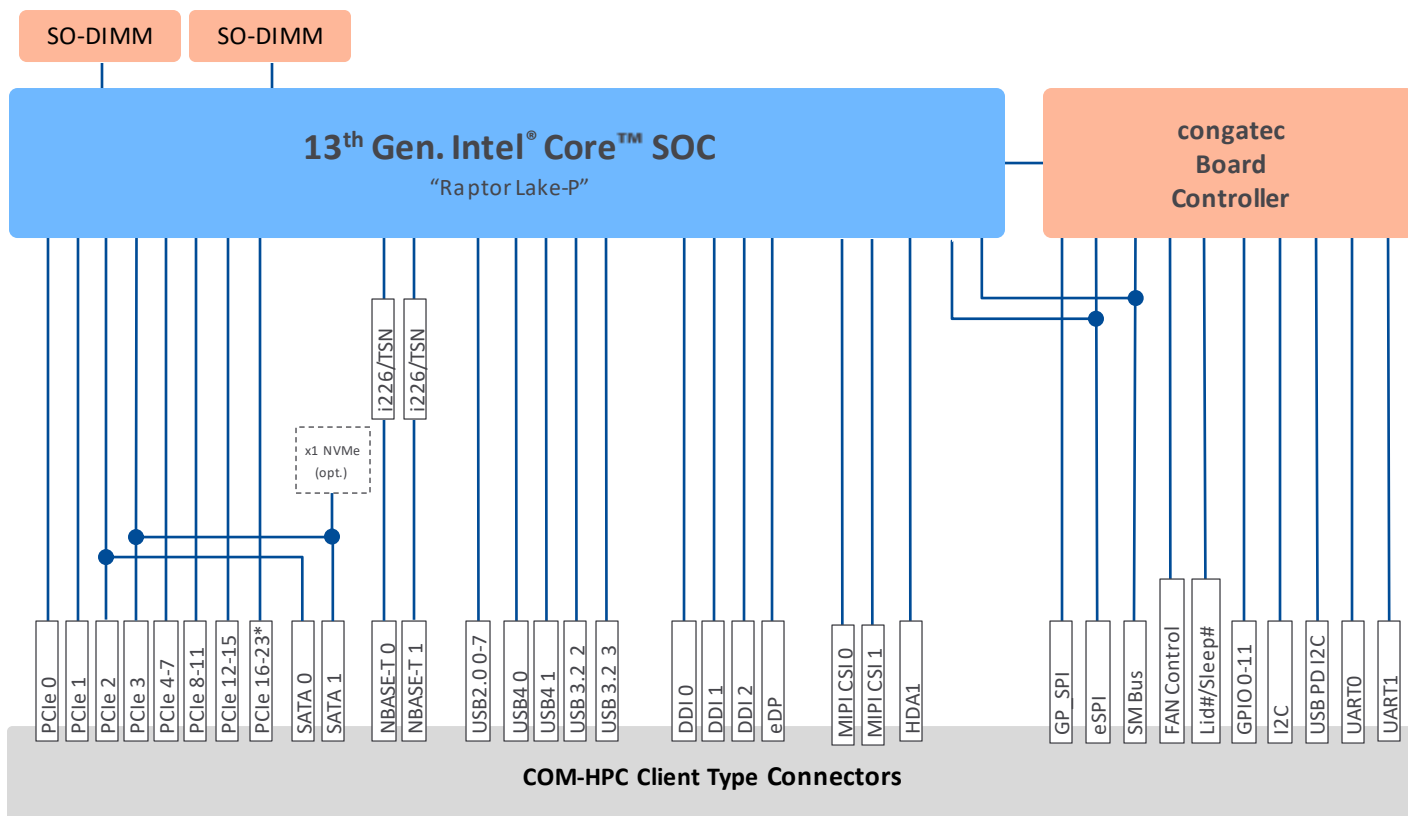
Hardware

Form factor	COM-HPC Client 120 mm x 95 mm
Processor	Intel® Core™ i5-1340PE Processor with 4 P-Cores
Graphics	Intel® Iris® Xe Graphics architecture Supports up to 4 independent displays
Memory	16 GB DDR5 4800 MT/s DRAM
Mass Storage	128 GB NVMe SSD connected via PCIe (soldered)
Temperature Humidity	0 °C to 60 °C 10% to 90% r. H. non cond.
Interfaces	8 x PCIe Gen5; 2 x4 PCIe Gen4; up to 8 PCIe Gen3 2x USB4; 2 x USB 3.2 Gen2x1; 8 x USB 2.0 up to 2x SATA 2 x UART 2 x MIPI-CSI

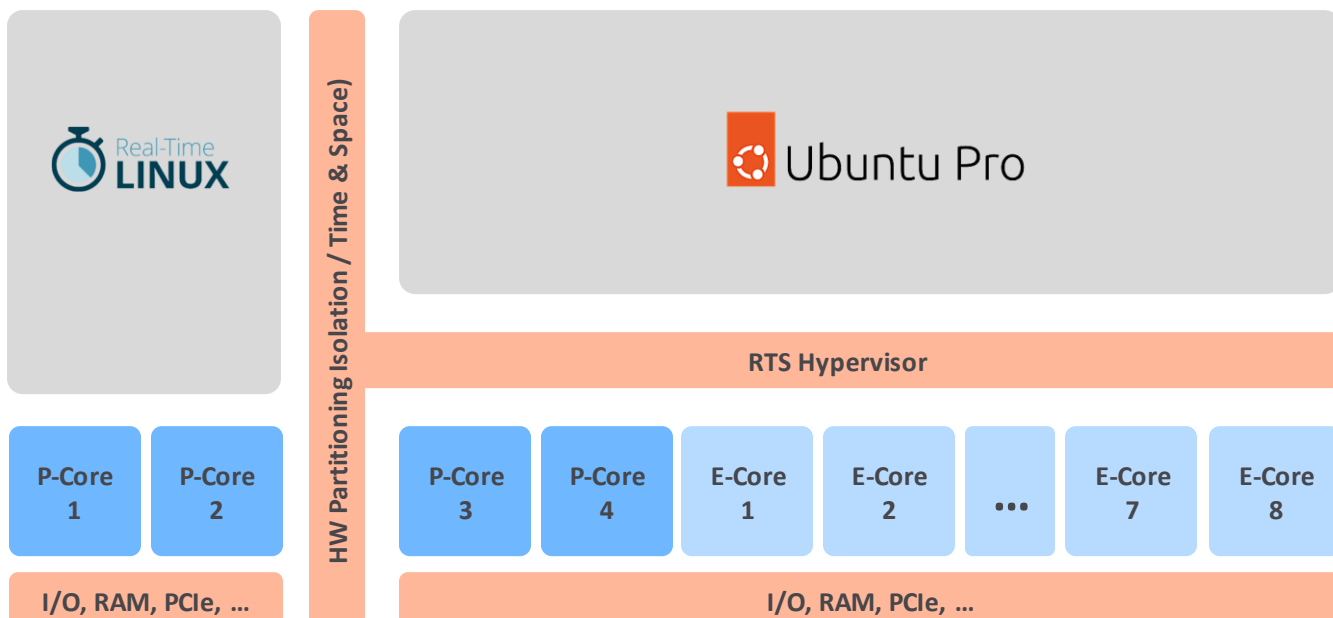
* For all interfaces please see Datasheet conga-HPC/cRLP



conga-aCOM/cRLP | Block Diagram



conga-aCOM/cRLP | System Consolidation



conga-aCOM/cRLP | Modules Order Information

Article	PN	Description
conga-aCOM/cRLP	320000	a Ready.COM including COM-HPC Size A module based on Intel® Core™ i5-1340PE processor with 4 P-cores 1.8GHz up to 4.5GHz Turbo and 8 E-cores 1.3GHz up to 3.3GHz Turbo 16GB Dual channel DDR5 4800 MT/s 128 GB NVMe SSD Active cooling solution (bore hole) Pre-installed Software: RTS Hypervisor (including evaluation license) Real-Time Linux Ubuntu Pro Desktop
conga-HPC/EVAL-Client	065600	Evaluation Carrier Board for COM-HPC Client type Modules.

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