## COM HPC<sup>®</sup>



## SOM-COM-HPC-A-RPL

COM HPC<sup>®</sup> Client module Size A, with 13th Gen Intel<sup>®</sup> Core<sup>™</sup> processors (Codename: Raptor Lake – H/P/U series)

# 13th Gen Core-i processing with AI accelerator for high performance industrial grade edge applications

		HIGHLIGHTS			
		CPU 13th Gen Intel® Core™ (Codename: Raptor L		CONNECTIVITY 도구 2x 2.5GbE; 4x USB4.0 / USB 3.2; 4x USB2.0; 8x PC PCIe x8 or 2x PCIe x4 Gen4; Optional on-board	
		GRAPHICS Intel® Iris® X® Archited EUs, up to 4 independ		MEMORY Two DDR5 SO-DIMM Slots supporting DDR5-480	00 Memory
			intel partner <sub>Coad</sub>		
		Windows 10 IoT Enterprise	VxWorks		CIOFC
MAIN FIELDS OF APPLICATIO	N				
	ffee & Medical			ustrial Smart Devices Digital Signage mation	
	in carrig				
	up to 14 cores & up to 20 W TDP	📰 PCI-e	Up to 8x PCIe xI Gen3 lanes Ix PCIe x8 Gen5 port		
Memory 2x DD	2x DDR5-4800 SODIMM Slots, up to 64GB			2x PCle x4 Gen4 ports SoundWire and I2S Audio Interface	
	Integrated Iris® X° Architecture, up to 96 Execution Units Up to two video decode boxes (VDBoxes) for enhanced		Audio		
Suppo	video stream capabilities Support for up to 48 simultaneous 1080p streams ingestion Support for up to four independent displays at up to 4K60 HDR resolution or one display at 8K resolution			2x 4-lane CSI-2 interfaces SPI, SM Bus, 2x 12C, Watchdog timer, Carrier board FAN Management signals, ACPI signals, Safety Status sign	
Up to LSPC0 Listo	3x DDI ports supporting DP	1.4, HDMI 2.0b (HDMI 2.1 via	Interfaces		
to 2x	DDI ports) 9 1.4b interface		Other	Al engine: Intel® Gaussian & Neural Accelerator 3 Can operate while the SOC is in lower power s	
DP eDP:	Up to 5120x3200 @60 7680x4320@60Hz 30 Up to 5120x3200 @60	bpp with DSC	Power Supply	+8V <sub>DC</sub> +20V <sub>DC</sub> Main power supply +5V stand-by	
Resolution HDMI	5120x3200@120Hz 30bpp with DSC IDMI®1.4: Up to 4Kx2K 24-30Hz 24bpp IDMI® 2.1: Up to 4Kx2K 48-60Hz 24bpp / 4Kx2K 48-60Hz 12bpc (need dedicated redriver on carrier board)		os Operating System	Windows 10 IoT Enterprise LTSC Windows Server 2022 Wind River VxWorks 7.0 Linux Kernel LTS (Ubuntu) Wind River Linux	
Storage PCI-e	2x external SATA Gen3 Channels PCI-e x4 ports can be used to connect, on the carrier board, M.2 NVMe drives			Yocto Android	
2x NB	ase-T Ethernet interfaces, s	Intel® i225 2.5GbE	Operating Temperat		
Contro			L Dimensior	ns 120 x 95 mm (COM-HPC® Size A Form factor,	Client pinout)
(WiFi ć anten	nal on-board M.2 1216 modu E) MIMO 2x2 + MU-MIMO ( nas <sup>*</sup> ication upon request		during any and	any point of SECO standard heatspreader for this p I all times (including start-up). Actual temperature v plication, enclosure and/or environment. Upon custo	vill widely
	4 x USB 4.0 / USB 3.2 Host p SB 2.0 Host port	ports	consider applic	ation-specific cooling solutions for the final system remperature in the range indicated.	

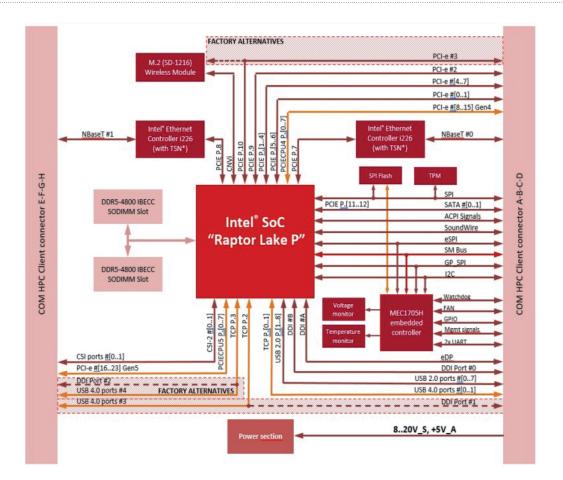




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BLOCK DIAGRAM





# Streamline and expedite your edge computing implementations

#### **EDGEHOG OS**

our solution

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**

PORTAL

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

