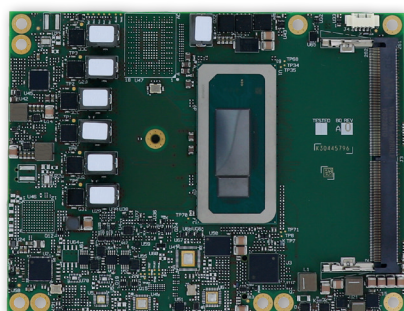




SOM-COMe-BT6-RPL-P

COM Express® 3.1 Type 6 Basic Module with 13th Gen Intel® Core™ processors (Raptor Lake-P)

Intensive video processing and AI-based analytics for edge devices in challenging environments



HIGHLIGHTS



CPU
13th Gen Intel® Core™ processors
targeted for IoT Applications



CONNECTIVITY
1x NBase-T 2.5GbE; 2x USB4.0 Gen2; 4x USB3.2 Gen 2; 8x USB 2.0;
8x PCI-e x1 Gen3; PEG x8 Gen4 and 2x PEG x4 Gen4



GRAPHICS
Embedded Intel® Iris® Xe graphics
with up to 96 execution units



MEMORY
Two DDR5 SO-DIMM Slots supporting DDR5-4800 IBECC Memory,
up to 64GB

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION

Coffee &
Vending

Medical



Transportation

Safety &
SurveillanceIndustrial
Automation

Smart Devices



Digital Signage

Energy &
Utilities

FEATURES

Processor	13th Gen Intel® Core™ processors (Raptor Lake U/P/H series) and Intel® Processor U300E			
		U series, up to 10C (2P+8E)	P series, up to 14C (6P+8E)	H series, up to 14C (6P+8E)
	P-Core base/turbo	1.7/4.9GHz	1.9/4.8GHz	2.5/5.0GHz
	E-Core base/turbo	1.2/3.7GHz	1.2/3.7GHz	1.8/4.0GHz
	Cache	Up to 12M	Up to 24M	Up to 24M
	TDP	15W	28W	45W
Memory	Two DDR5 SO-DIMM slots supporting DDR5-4800, IBECC modules memory, up to 64GB			
Graphics	Intel® UHD Graphics/Intel® Iris® Xe Graphics architecture, up to 96 EU Improved image (IPU6EP) and video processing (AVI/GNA 3.0) Support up to 4 independent displays @ 4K			
Video Interfaces	Up to 3x Digital Display Interfaces (DDIs), supporting DVI, DP 1.4, HDMI® 2.1 1x VGA (factory option) 1x eDP 1.3 or single/dual-channel 18-/24-bit LVDS interface (factory alternatives)			
Video Resolution	HDMI® and DP up to 8K @ 60Hz via TCSS with Hayden Bridge eDP 1.4b up to 5K @ 120Hz (HBR3 with VDSC1.1) LVDS up to 1920x1200 @ 60Hz			
Mass Storage	2x SATA Gen3 channels Up to 128 GB on-board NVMe SSD (factory alternative to one PCI-express Graphics (PEG) x4 Gen4)			
Networking	1x NBase-T Ethernet interface with Intel® I225 GbE controller, with TSN and 2.5GbE supported			
USB	Up to 2x USB 4 Gen2 host ports (depending on carrier board retimer implementation) 4x USB 3.2 Gen2 (10Gbps) host ports (depending on carrier board retimer implementation) 8x USB 2.0 host ports			
PCI-e	Up to 8x PCI-e x1 Gen3 lanes 1x PCI-express Graphics (PEG) x8 Gen4 Up to 2x PCI-express Graphics (PEG) x4 Gen4			
Audio	HD audio and Soundwire/I2S audio interfaces			
Serial Ports	2x UARTs			
Other Interfaces	SPI, I2C, SM Bus, Thermal Management, FAN management Optional eSPI or LPC bus (factory alternatives) Optional TPM 2.0 on-board LID#/SLEEP#/PWRBTN#, Watchdog 4 x GPI, 4 x GPO			
Power Supply	+12V _{DC} ± 10%, +5V _{SB} (optional), +3V _{RTC} (optional)			
Operating System	Microsoft® Windows 10 Linux Ubuntu			

SOM-COMe-BT6-RPL-P

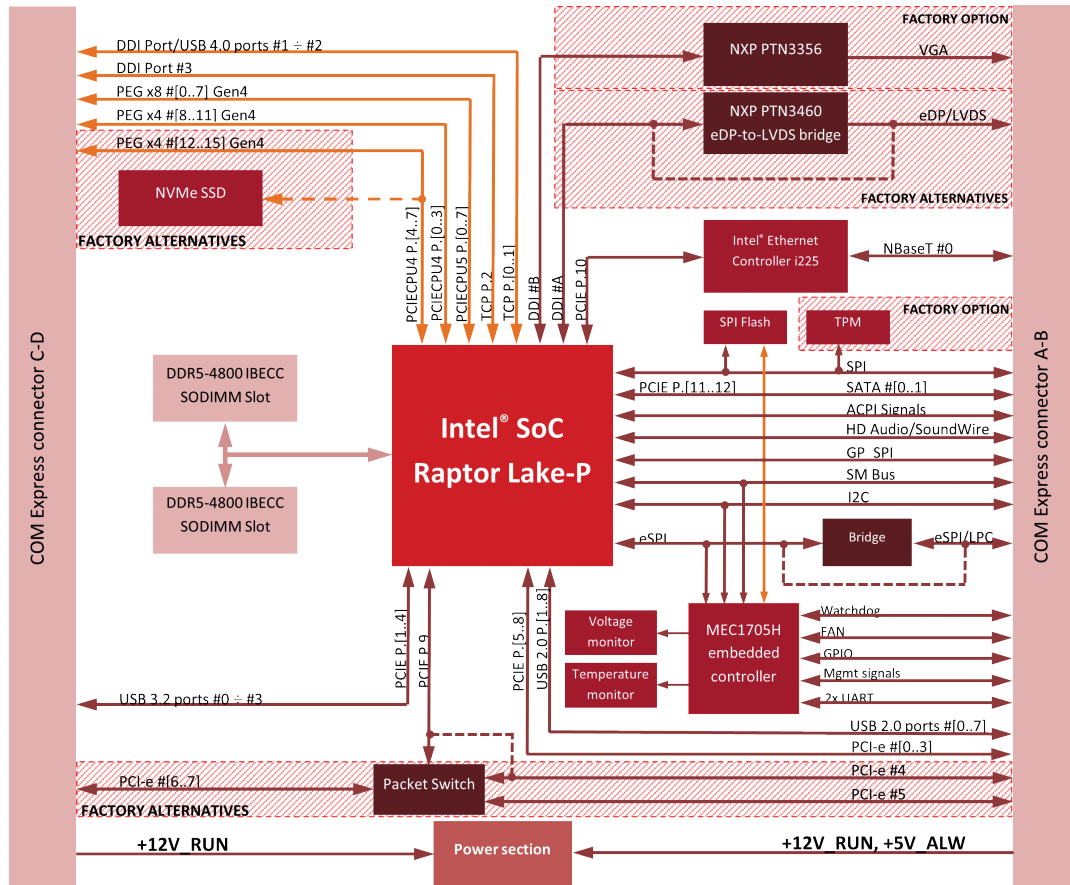
COM Express® 3.1 Type 6 Basic Module with 13th Gen Intel® Core™ processors (Raptor Lake-P)

FEATURES

Operating Temperature*	0°C to +60°C (commercial version) -40°C to +85°C (industrial version)
Dimensions	125 x 95 mm (COM Express® Basic Form factor, Type 6 pinout)

*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 final system to keep the heatspreader temperature in the range indicated.

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

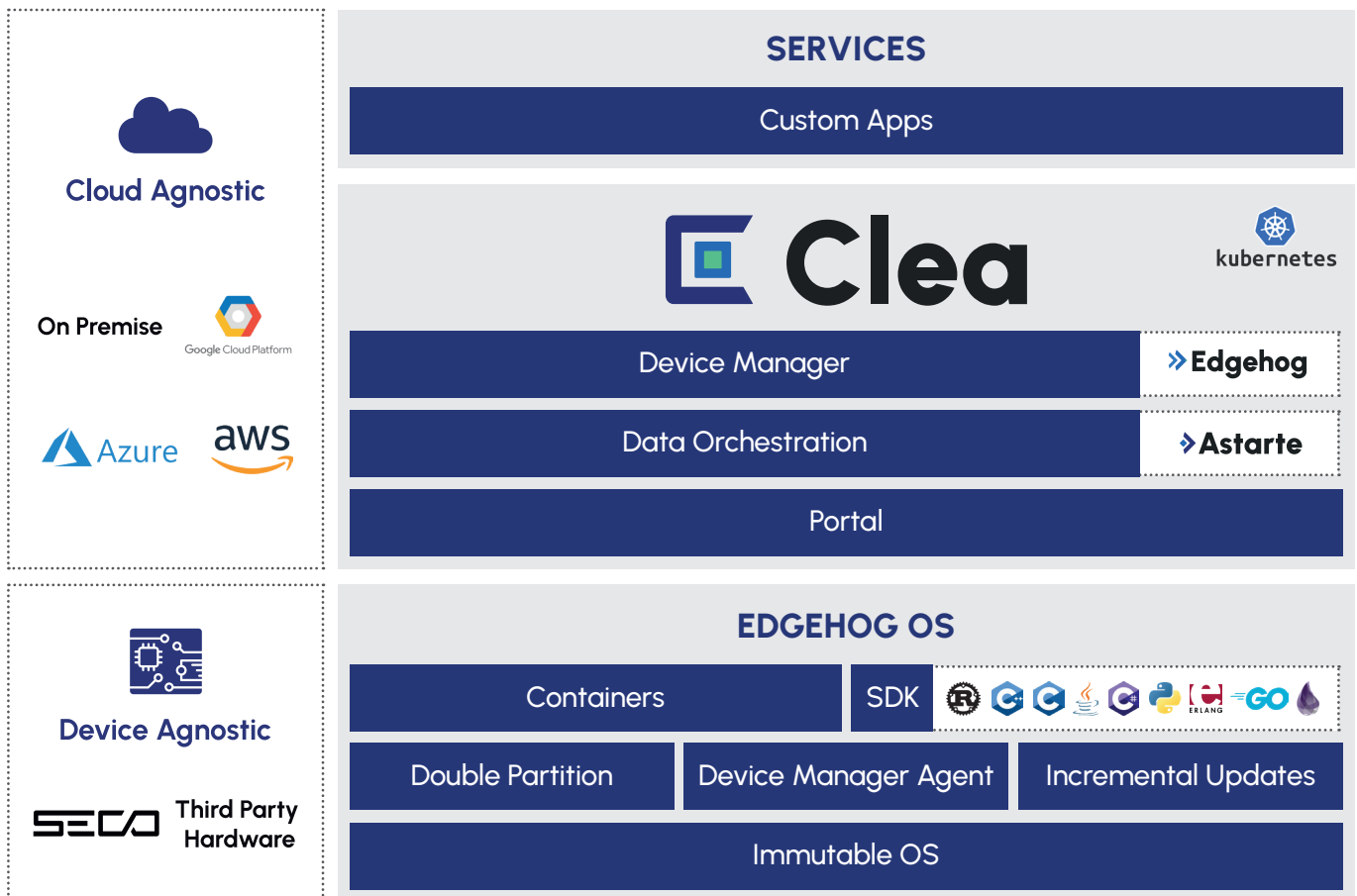
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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

