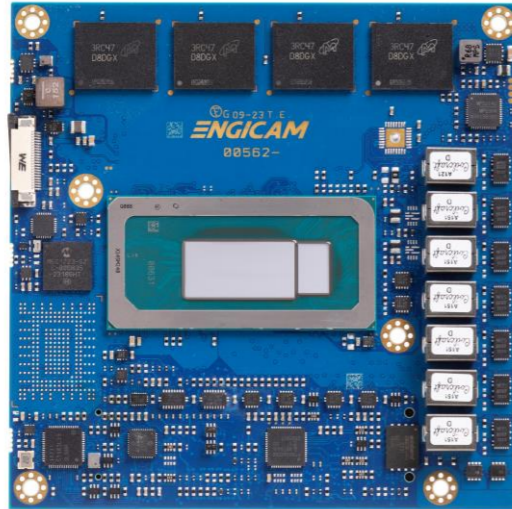


The new Engicam COMe module, based on **Intel® processors RAPTOR LAKE** for IoT applications with performance architecture and industrial-grade capabilities, enables IoT use cases with up to **1.08x times faster** in single-thread performance and up to **1.05x times faster** in multi-thread performance vs. the previous generation processors.



HIGHLIGHTS

- Standard COM Express
- Suitable for IoT and real time performance
- Ethernet interface up to 2.5 Gb
- DP/HDMI up to 4096x2160@60Hz

APPLICATIONS



FEATURES

CPU	<ul style="list-style-type: none"> • Intel Core i7-1365URE Core @ 1.7 GHz (burst 4.9 GHz) 12MB L3 cache, 15W • Intel Core i5-1345URE Core @ 1.4 GHz (burst 4.6 GHz) 12MB L3 cache, 15W • Intel Core i3-1315URE Core @ 1.2 GHz (burst 4.5 GHz) 10MB L3 cache, 15W • Intel Core i7-1370PRE Core @ 1.9 GHz (burst 4.8 GHz) 24MB L3 cache, 28W • Intel Core i5-1350PRE Core @ 1.8 GHz (burst 4.6 GHz) 12MB L3 cache, 28W • Intel Core i3-1320PRE Core @ 1.7 GHz (burst 4.5 GHz) 12MB L3 cache, 28W • Intel Core i7-13800HRE Core @ 2.5 GHz (burst 5 GHz) 24MB L3 cache, 45W • Intel Core i5-13600HRE Core @ 2.7 GHz (burst 4.8 GHz) 18MB L3 cache, 45W • Intel Core i3-13300HRE Core @ 2.1 GHz (burst 4.6 GHz) 12MB L3 cache, 45W 	MASS STORAGE <ul style="list-style-type: none"> • 2x SATA • Starting from 64GB NVMe PCIe
CORES	Up to 6 P-Cores Up to 8 E-Cores	USB <ul style="list-style-type: none"> • 4 x USB HOST 3.1 • 8 x USB HOST 2.0
MEMORY	Up to 64 GB LPDDR5 6400 MT/s	PCIe <ul style="list-style-type: none"> • Up to 8x PCIe 3.0 • Up to 8x PCIe 5.0 + 4x PCIe 4.0 PEG (optional)
GRAPHICS	<ul style="list-style-type: none"> • Intel® Iris Xe Graphics architecture • Intel® Deep Learning Boost (VNNI) • DirectX 12.1, OpenGL 3.0, IPU 6.0 	PERIPHERAL INTERFACES <ul style="list-style-type: none"> • SM Bus, I2C, eSPI/LPC (option), UART, GPIOs, CSI connector, JTAG EC connector
VIDEO INTERFACES	<ul style="list-style-type: none"> • HDMI/DP • eDP/LVDS 	AUDIO <ul style="list-style-type: none"> • HDA Interface
VIDEO PROCESSING	<ul style="list-style-type: none"> • HEVC/H.265, AVC/H.264, VP9, JPEG/MJPEG dec • HEVC/H.265, AVC/H.264, VP9, JPEG enc 	OPERATING SYSTEM <ul style="list-style-type: none"> • Ubuntu • Windows 10
NETWORKING	Ethernet interface up to 2.5 Gb	POWER SUPPLY <ul style="list-style-type: none"> • +8.5 to 20 V DC
DIMENSIONS <ul style="list-style-type: none"> • 95 x 95 mm 		OPERATING TEMPERATURE* <ul style="list-style-type: none"> • Industrial (-40°C to 110°C Tj)

* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.

BLOCK DIAGRAM

