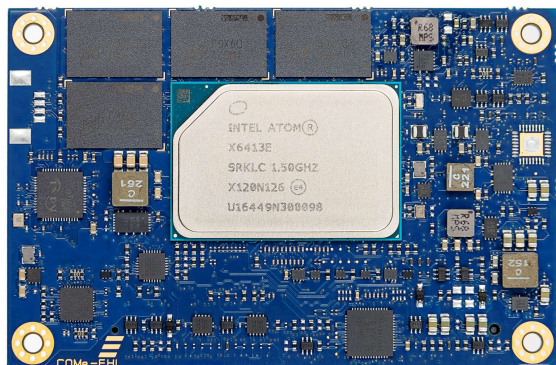


COMe 10M- EHL

The new Engicam COMe module, based on Intel® processors ELKHART LAKE™ series ATOM® x6000E, Pentium® and Celeron®. CPU and graphics performance with integrated IoT features, real-time performance, manageability, security, and functional safety.



FEATURES

- CPU**
- Intel Atom X6211E Dual Core @ 1.2 GHz (burst 3.0 GHz) 1.5MB L2 cache, 6W
 - Intel Atom X6413E Quad Core @ 1.5 GHz (burst 3.0 GHz) 1.5MB L2 cache, 9W
 - Intel Atom X6425E Quad Core @ 1.8 GHz (burst 3.0 GHz) 1.5MB L2 cache, 12W
 - Intel Atom X6212RE Dual Core @ 1.2 GHz, 1.5MB L2 cache, 6W
 - Intel Atom X6414RE Quad Core @ 1.5 GHz, 1.5MB L2 cache, 9W
 - Intel Atom X6425RE Quad Core @ 1.9 GHz, 1.5MB L2 cache, 12W

CORES Up to 4

MEMORY Up to 16GB LPDDR4

- GRAPHICS**
- Intel 11th generation (Gen 11) LP graphics controller.
 - DirectX 12.1 compliant, OpenGL ES 3.1/3.0/2.0/1.1, OpenGL 4.5 supported, OpenCL™ 1.2, Vulkan 1.0 APIs, Dedicated FIVR for Graphics, Intel Virtualization Technology for Directed I/O (VT-d)

- VIDEO INTERFACES**
- HDMI/DP
 - eDP/LVDS

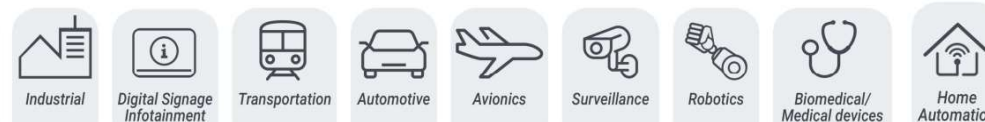
- VIDEO PROCESSING**
- HEVC/H.265, H.264, VP9, VP8, WMV9/VC1, MPEG-2, VC-1. JPEG/MJPEG dec
 - HEVC/H.265, H.264, VP9, JPEG/MJPEG enc

AUDIO HDA Interface

HIGHLIGHTS

- Standard COM Express® Mini type 10
- Suitable for IoT and real time performance
- Ethernet interface up to 2.5 Gb
- DP/HDMI up to 4096x2160@60Hz

APPLICATIONS



NETWORKING	Ethernet interface up to 2.5 Gb
MASS STORAGE	<ul style="list-style-type: none"> 2x SATA Starting from 4GB eMMC drive soldered on-board
USB	<ul style="list-style-type: none"> 2 x USB HOST 3.1 8 x USB HOST 2.0
PCIe	6 x PCIe 3.0
PERIPHERAL INTERFACES	SDIO, SM Bus, I ² C, LPC/eSPI, SPI, UART/CAN(optional), GPIOs
POWER SUPPLY	+5 to 20 V DC
OPERATING SYSTEM	<ul style="list-style-type: none"> Ubuntu Windows 10
OPERATING TEMPERATURE*	Industrial (-40°C to 110°C Tj)
DIMENSIONS	55 x 84 mm

* 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

