

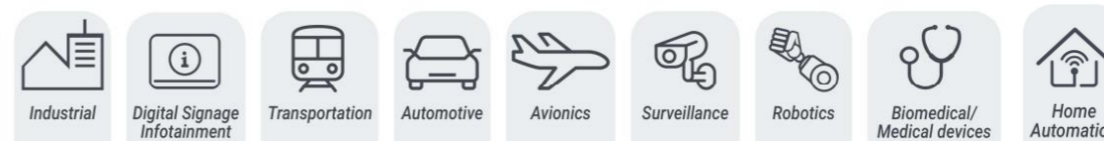
New module developed on SMARC standard, based on Intel® processors ELKHART LAKE™ series ATOM® x6000E. SmarCore EHL is built on new levels of CPU and graphics performance with integrated IoT features, for real-time performance, manageability, security, and functional safety.



## HIGHLIGHTS

- Standard SMARC
- Suitable for IoT and real time performance

## APPLICATIONS

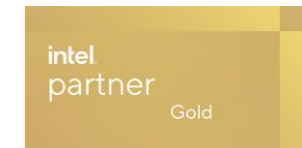


## FEATURES



CPU	<ul style="list-style-type: none"> <li>• Intel Atom X6211E Dual Core @ 1.2 GHz (burst 3.0 GHz) 1.5MB L2 cache, 6W</li> <li>• Intel Atom X6413E Quad Core @ 1.5 GHz (burst 3.0 GHz) 1.5MB L2 cache, 9W</li> <li>• Intel Atom X6425E Quad Core @ 1.8 GHz (burst 3.0 GHz) 1.5MB L2 cache, 12W</li> <li>• Intel Atom X6212RE Dual Core @ 1.2 GHz, 1.5MB L2 cache, 6W</li> <li>• Intel Atom X6414RE Quad Core @ 1.5 GHz, 1.5MB L2 cache, 9W</li> <li>• Intel Atom X6425RE Quad Core @ 1.9 GHz, 1.5MB L2 cache, 12W</li> <li>• Intel Atom X6427FE Quad Core @ 1.9 GHz, 1.5MB L2 cache, 12W</li> <li>• Intel Atom X6200FE Dual Core @ 1.0 GHz, 1.5MB L2 cache, 4.5W</li> </ul>	USB <ul style="list-style-type: none"> <li>• 2x USB HOST 3.0</li> <li>• 3x USB HOST 2.0</li> <li>• 1x USB OTG 2.0</li> </ul>
CORES	Up to 4 up to 1.9GHz, L2 cache 1.5MB	MASS STORAGE <ul style="list-style-type: none"> <li>• Starting from 16GB eMMC drive soldered on-board</li> <li>• SATA Gen3.2</li> </ul>
MEMORY	Starting from 2GB LPDDR4	PERIPHERAL INTERFACES <ul style="list-style-type: none"> <li>• UART, I2C, SPI, CAN, SDIO, GPIOs, JTAG (optional)</li> </ul>
GRAPHICS	<ul style="list-style-type: none"> <li>• Intel® 11th generation (Gen 11) LP graphics controller.</li> <li>• 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)</li> </ul>	PCIE <ul style="list-style-type: none"> <li>• 1x PCIe 3.0</li> </ul>
VIDEO INTERFACES	<ul style="list-style-type: none"> <li>• HDMI up to 4096x2160@60Hz</li> <li>• eDP to LVDS Dual channel up to 1920x1080 @ 60Hz via eDP bridge</li> <li>• DP up to 4096x2160@60Hz</li> <li>• eDP up to 4096x2160@60Hz</li> </ul>	OPERATING SYSTEM <ul style="list-style-type: none"> <li>• Ubuntu</li> <li>• Windows 10</li> </ul>
VIDEO PROCESSING	<ul style="list-style-type: none"> <li>• HEVC/H.265, H.264, VP9, VP8, WMV9/VC1, MPEG-2, VC-1. JPEG/MJPEG dec</li> <li>• HEVC/H.265, H.264, VP9, JPEG/MJPEG enc</li> </ul>	POWER SUPPLY <ul style="list-style-type: none"> <li>• +5 V DC</li> </ul>
AUDIO	<ul style="list-style-type: none"> <li>• I2S interface</li> <li>• HDA</li> </ul>	DIMENSIONS <ul style="list-style-type: none"> <li>• Standard SMARCTM 2.0 short size module</li> </ul>
NETWORKING	<ul style="list-style-type: none"> <li>• 2x GB Ethernet interface</li> </ul>	OPERATING TEMPERATURE* <ul style="list-style-type: none"> <li>• Industrial (-40°C to 110°C Tj)</li> </ul>

\* 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

