

The new Engicam module for edge AI, multimedia and HMI applications is based on SMARC® standard. SmarCore ASL is based on Intel Atom® x7000RE series and Intel Atom® x7000C series for industrial and commercial use.



## FEATURES



	<b>CPU</b>	Intel® Amston Lake
	<b>CORES</b>	<ul style="list-style-type: none"> <li>Intel Atom® x7000RE Series**</li> <li>Intel Atom® x7000C Series</li> </ul>
	<b>MEMORY</b>	Up to 16GB (@ up to 4800MT/s) LPDDR5
	<b>GRAPHICS</b>	UHD Intel, OpenGL 4.6, OpenCL 3.0, Direct X 12.1, IPU 6
	<b>VIDEO INTERFACES</b>	<ul style="list-style-type: none"> <li>LVDS 18/24bit up to Full HD</li> <li>Display Port</li> <li>HDMI 2x (1x via DP) up to Full HD</li> <li>2x MIPI-CSI – 2-4 lanes</li> </ul>
	<b>VIDEO PROCESSING</b>	<ul style="list-style-type: none"> <li>HEVC/ H265, VP9, AV1 dec</li> <li>HEVC/H265 enc</li> </ul>
	<b>AUDIO</b>	<ul style="list-style-type: none"> <li>I2S interface</li> <li>HDA</li> </ul>
	<b>NETWORKING</b>	2x 2.5GB Ethernet interface

## HIGHLIGHTS

- Standard SMARC 2.1.1
- Suitable for edge AI, vision and advanced multimedia applications

## APPLICATIONS



	<b>USB</b>	<ul style="list-style-type: none"> <li>6x USB 2.0</li> <li>2x USB 3.0</li> </ul>
	<b>MASS STORAGE</b>	Starting from 4GB eMMC drive soldered on-board
	<b>PERIPHERAL INTERFACES</b>	UART, I2C, SPI, GPIOs
	<b>PCIe</b>	4x PCIe 3.0
	<b>OPERATING SYSTEM</b>	<ul style="list-style-type: none"> <li>Linux</li> <li>Windows 10/ Windows IoT</li> </ul>
	<b>POWER SUPPLY</b>	+5V DC
	<b>DIMENSIONS</b>	Standard SMARC short size module
	<b>OPERATING TEMPERATURE*</b>	Industrial** and commercial qualified

\* 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**

