

The new Engicam module for machine learning, IoT connectivity, multimedia and HMI applications is based on SMARC® standard. SmarCore ADL-N is based on Intel® Core™ i3 N-Series, Intel Atom® x7000E series and Intel® Processors N Series.



FEATURES



	CPU	Intel® Alder Lake N
	CORES	Intel Core™ i3 N-Series Intel Atom® x7000E Series Intel Processor N Series
	MEMORY	Up to 16GB (@ up to 4800MT/s) LPDDR5
	GRAPHICS	UHD Intel, OpenGL 4.6, OpenCL 3.0, Direct X 12.1, IPU 6
	VIDEO INTERFACES	<ul style="list-style-type: none"> • LVDS 18/24bit up to Full HD • Display Port • HDMI 2x (1x via DP) up to Full HD • 2x MIPI-CSI – 2-4 lanes
	VIDEO PROCESSING	<ul style="list-style-type: none"> • HEVC/ H265, VP9, AV1 dec • HEVC/H265 enc
	AUDIO	<ul style="list-style-type: none"> • I2S interface • HDA
	NETWORKING	2x 2.5GB Ethernet interface

HIGHLIGHTS

- Standard SMARC 2.1.1
- Powerful Intel® Core processor with a Neural Processing Unit (NPU)
- Suitable for machine learning, vision and advanced multimedia applications

APPLICATIONS



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

