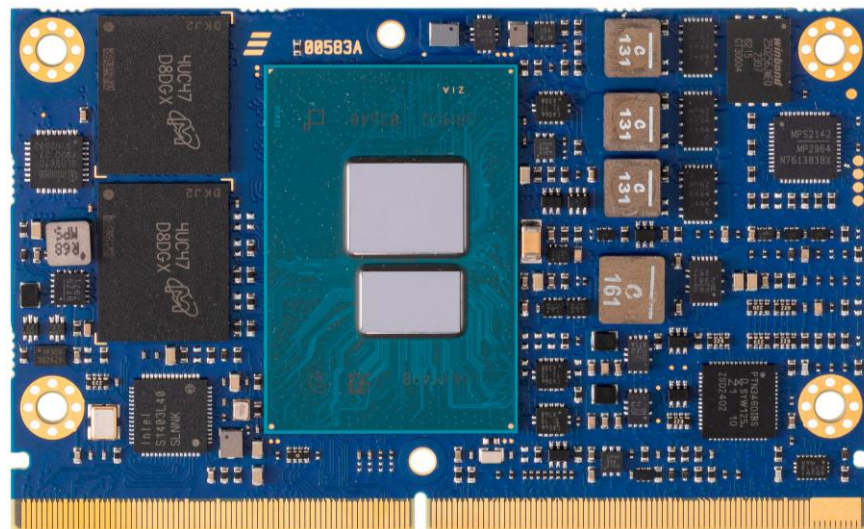


This Engicam module for machine learning, IoT connectivity, multimedia and HMI applications is based on SMARC® standard. SmarCore ADL-N is based on Intel® Core™ i3 N-Series, Intel Atom® x7000E series and Intel® Processors N Series.



FEATURES



Windows 10 Windows IoT

 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 up to 4K • HDMI 2x (1x via DP) up to 4K • 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 2.5 Gb Ethernet interface

HIGHLIGHTS

- Standard SMARC 2.1.1
- 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*	Embedded 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

