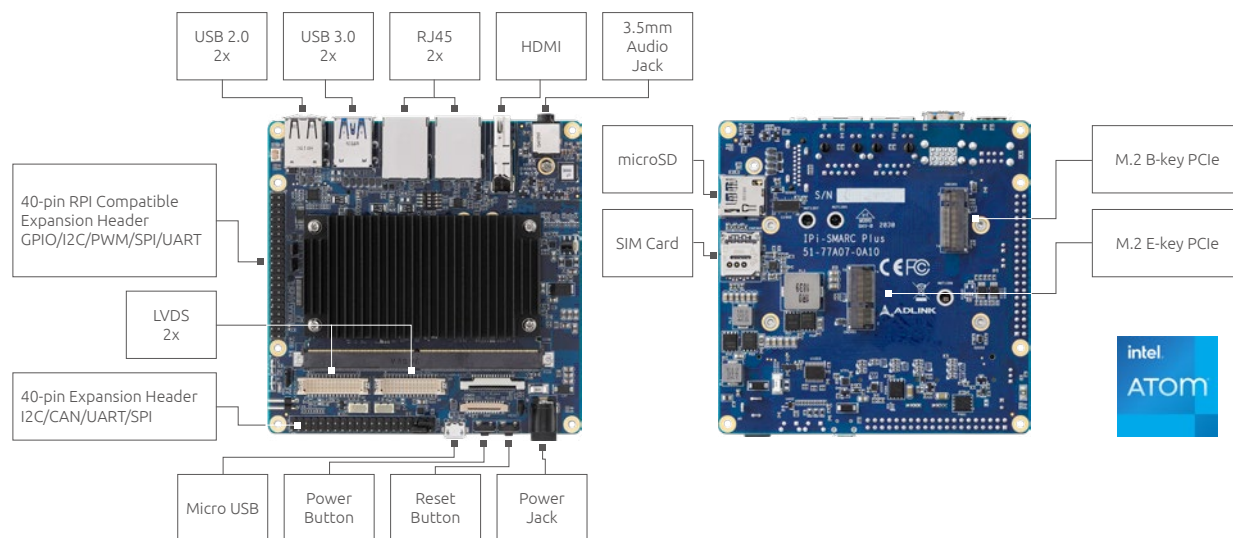


I-Pi SMARC Elkhart Lake

Industrial Prototyping Kit for IoT with Off-the-Shelf SMARC Computer-on-Module



Features

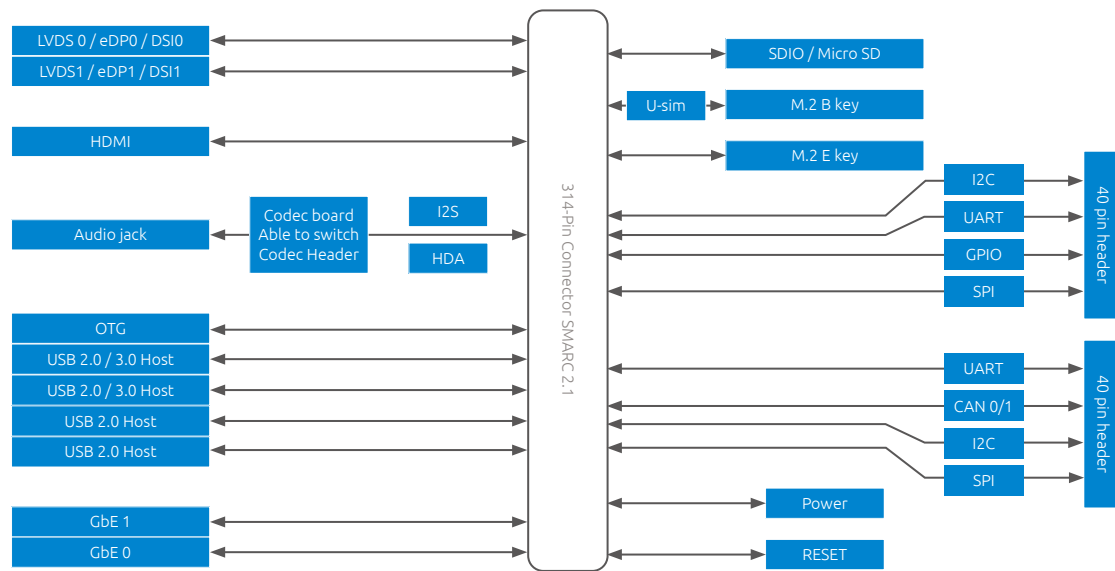
- Based on Intel® 6th Gen. Atom® x6425E quad-core SoC with integrated GPU
- Equipped with SMARC 2.1 compliant module specially designed for industrial embedded applications requiring long life, high MTBF and strict revision control
- Includes everything needed to go live in minutes
- Industrial grade quality and minimum 10 year product availability
- Supports Windows 10, Linux and Android OS

Specifications

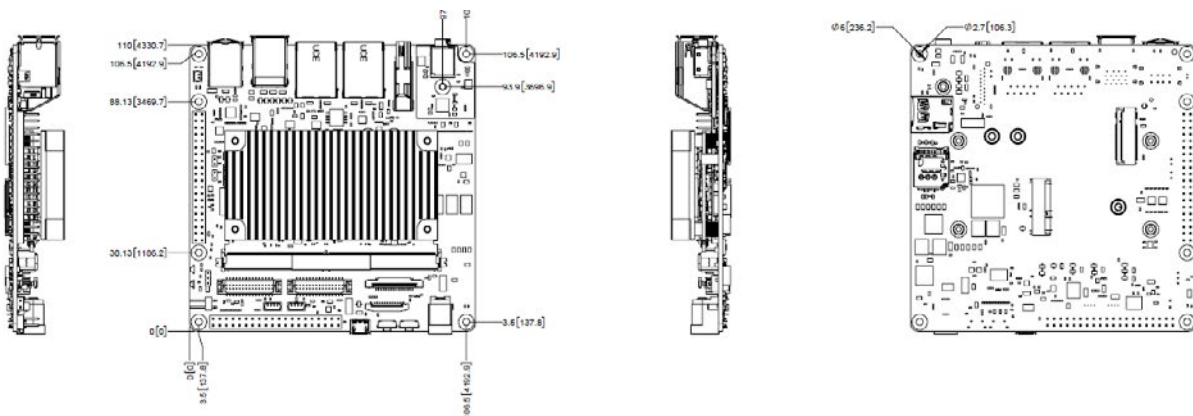
CORE SYSTEM	SoC	Intel 6th Gen. Atom® x6425E Quad Core SoC
	Architecture	x86
	Memory	4GB LPDDR4
	Storage	64GB eMMC 5.0
	IoT Security	TPM 2.0 (optional), Intel® AES-NI, Secure Key, Execute Disable Bit, Intel® OS Guard, Intel® Boot Guard
ETHERNET	LAN	2x 2.5GbE
AUDIO	Codec	Realtek ALC262-VC2-GR
VIDEO	GPU Core	Intel® UHD Graphics for 10th Gen Intel® Processors
	Video Decoding	4Kp60 HEVC, H.265 for decode H.264, VP9, VP8
	Video Encoding	4Kp60 H.265, H.264

I/O INTERFACES	40-pin RPI Expansion Header	GPIO / I2C / PWM / SPI / UART
	40-pin Expansion Header	I2C / CAN / SPI / UART
CONNECTORS	Display	1x HDMI 2x LVDS
	Audio	1x 3.5mm Audio Jack
	Network	2x RJ45
	USB	2x USB 3.0 2x USB 2.0 1x Micro USB
	Buttons	1x Reset 1x Power
	SD Card Slot	1x microSD
	SIM Card Slot	1x SIM
	M.2 Card Slots	1x M.2 B-key PCIe 1x M.2 E-key PCIe
POWER	Input	19V+/-5% DC
	Connector	DC Jack
OPERATING SYSTEMS	Standard Support	Windows 10 / Yocto / Android [TBC]
	Form Factor	SGET SMARC Specifications v2.1
MECHANICAL AND ENVIRONMENTAL	Dimensions	SMARC short size module (82mm x 50mm)
	Operating Temperature	Standard: 0°C to +60°C Rugged: -40°C to +85°C (optional)
	Humidity	5-90% RH operating, non-condensing 5-95% RH storage
	Shock and Vibration	IEC 60068-2-64 and IEC-60068-2-27 MIL-STD-202 F Method 213B, Table 213-I, Condition A Method 214A, Table 214-I, Condition D
	HALT	Thermal Stress, Vibration Stress, Thermal Shock and Combined Test

Functional diagram



Dimensional drawing



Ordering information

- | | |
|--|---|
| <p>■ I-Pi SMARC Elkhart Lake (EU)</p> <p>I-Pi SMARC development kit based on LEC-EL module including 4GB LPDDR4 memory, 64GB eMMC, EU AC power adapter</p> | <p>■ -Pi SMARC Elkhart Lake (US)</p> <p>I-Pi SMARC development kit based on LEC-EL module including 4GB LPDDR4 memory, 64GB eMMC, US AC power adapter</p> |
|--|---|