I-Pi SMARC 1200

I-Pi SMARC Plus Prototyping DevKit based on MediaTek Genio 1200 platform1200



Features

- Based on MediaTek Genio 1200 platform with integrated APU, VPU, and GPU units
- Equipped with SMARC 2.1 compatible module specially designed for industrial embedded applications requiring long life, high MTBF, and strict revision control
- Industrial-grade quality and 10-year+ product availability
- Supports Yocto, Android, Ubuntu OS

Specifications

Core System	SoC	MediaTek MT8395 8-core SoC
	APU	AI Engine up to 4.8 TOPS
	Architecture	4x Arm Cortex-A78 + 4x Cortex-A55
	Memory	4GB LPDR4X
	Storagee	64GB UFS
	IoT Security	TPM 2.0*
Video	GPU Core	5-core Arm Mali-G57 MC5 3D Graphics Accelerator
	Video Decoding	4Kp60 HEVC, H.265 for decode H.264, VP9, VP8
	Video Encoding	4Kp60 H.265, H.264
	Camera	2x MIPI-CSI (4 data lanes), 1x MIPI-CSI (2 data lanes)
Audio	Codec	WM890
Ethernet	LAN	2x GbE

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Specifications

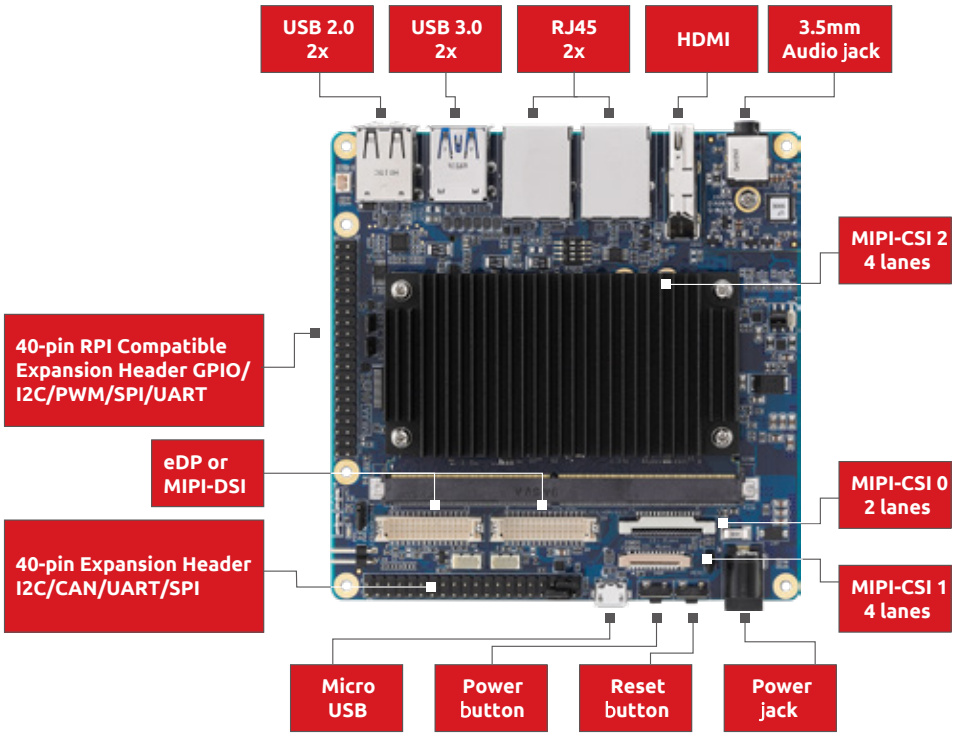
Connectors/Headers	Display	1x HDMI 1x eDP or MIPI-DSI
	Audio	1x 3.5mm Audio jack
	Network	2x RJ45
	USB	2x USB 3.0, 2x USB2.0, 1x micro USB
	Buttons	1x Reset 1x Power
	SD Card Slot	1x microSD
	SIM Card Slot	1x SIM
	M.2 Card Slots	1x M.2 B-key PCIe 1x M.2 E-key PCIe
	40-pin RPI Expansion Header	GPIO / I^2C / PWM / SPI / UART
	40-pin Expansion Header	I^2C / CAN / SPI / UART
Power	Input	19V+/-5% DC
	Connector	DC Jack
Operating Systems	Standard Support	Yocto / Android / Ubuntu
Mechanical	Form Factor	SGET SMARC Specification v2.1
	Dimensions	SMARC short size module (82mm x 50mm)
	Operating Temperature	Standard: 0°C to 60°C Rugged: -20°C to 85°C*
	Humidity	Operating: 5-90% RH, non-condensing Storage: 5-90% RH
	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

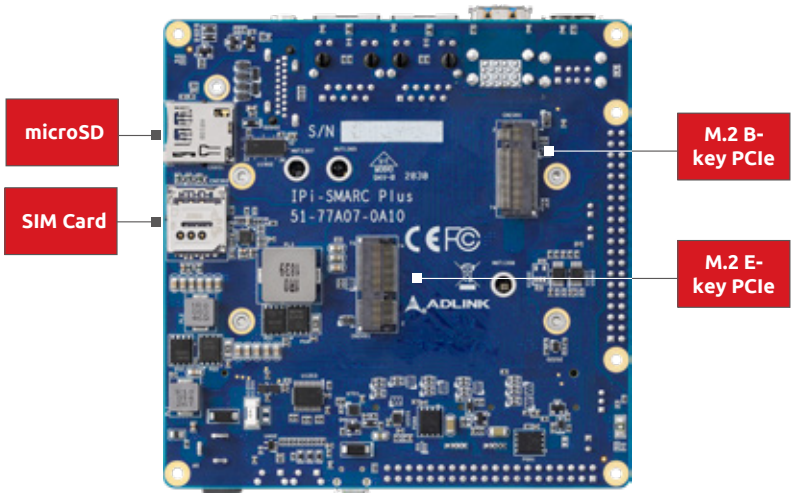
Ordering Information

Development Kit	Description/Configuration
I-Pi SMARC 1200 US-Wi-Fi	SMARC LEC-MTK-i1200 Prototyping Dev Kit with 4G-64G and US power cable
I-Pi SMARC 1200 EU-Wi-Fi	SMARC LEC-MTK-i1200 Prototyping Dev Kit with 4G-64G and EU power cable

*optional, subject to the module used

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