# SYNCUSTECH
SBC-A9i6

NXP ARM Cortex-A9, i.MX6 Processor Pico-ITX Motherboard

SBC-A9i6

SBC-A9i6 is a PICO ITX board based on the NXP i.MX6 processor, and is scalable with broad levels of integration and power-efficient processing capabilities particularly suited to multimedia applications. This product is designed for flexible interface with CAN, I2C, SPI, GPIO, etc., as well as high-tier portable applications. Due to this feature, SBC-A9i6 is ideal for applications in industrial gateway that collects and transmits a large amount of data generated from sensors installed in various factory facilities. Based on the Arm® Cortex®-A9, SBC-A9i6 supports scalable performance and power efficiency for a broad range of 32-bit consumer, networking, enterprise, and mobile applications.
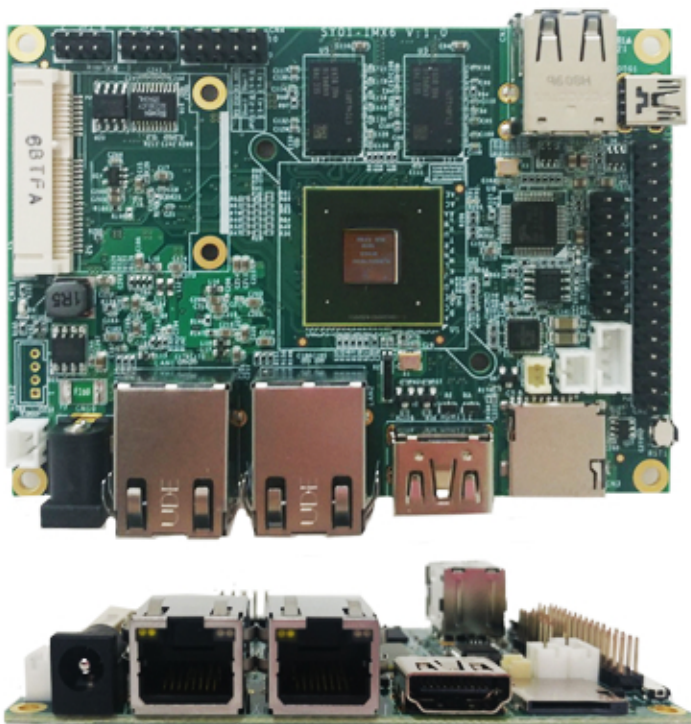
Features

- NXP ARM Cortex-A9 i.MX6 Quad/Dual Core Processor
- 2GB DDR3 533MHz Onboard
- 4x USB2.0, 1x mini USB(OTG)
- 2x RS232 (1x RS232/485 included)
- Display: 1x HDMI, 1x LVDS
- Touch: Multiple (Capacitive) touch
- 1x mPCIe (half size, USB interface)
- 2 x GbE LAN
- 2x CAN

Module	Function	Descriptions
Processor System	CPU	NXP ARM Cortex-A9 i.MX6
	Core Number	Dual/Quad Core
	OS	Linux (ver. 3.14), support "TrustZone"
Memory	Technology	DDR3 533MHz
	Max.Capacity	2GB
	Type	Onboard

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Module	Function	Descriptions
Storage	SD Card	1 x Micro SD slot
Flash	-	8GB eMMC
Graphics	-	HD (1080 + 720)p30 video decode, HD 1080p30 video encode
Ethernet	Interface Controller	1 x 10/100/1000Mbps LAN (RTL8211E)
		1 x PCIe LAN controller (RTL 8111F)
Audio	Codec	Low Power Stereo Codec SGTL5000
Expansion	mPCI-e	1 x mPCIe (half size, USB interface)
Standard Connector	LVDS	1 x LVDS
	HDMI	1 x HDMI (Type A)
	Ethernet	2 x RJ45 (with LED)
	USB	1 x Mini USB(OTG)
		2 x USB 2.0 type A connector
	SD Card	1 x Micro SD
Internal Pin Header	Serial	1 x RS232 pin header, 1x RS232/485 switchable, 1x debug port
	USB	2 x USB 2.0 pin header
	CAN	2 x CAN pin header
	GPIO	8 x bit GPIO pin header
	SPI	1 x SPI
	I2C	1 x I2C
	Audio	HP and Mic., pin header
	Boot	1 x 4 pin header for boot/download
Button	-	1x power button, 1x reset button
Power Requirement	Power	Single power source, +5V DC, RTC backup battery
Environment	Operating Temparature	Operational: 0 ~ 60℃, storage: -40 ~ 80℃
	Operating Humidity	5% ~ 95% non-condensing
Physical	Dimensions	100mm x 72mm

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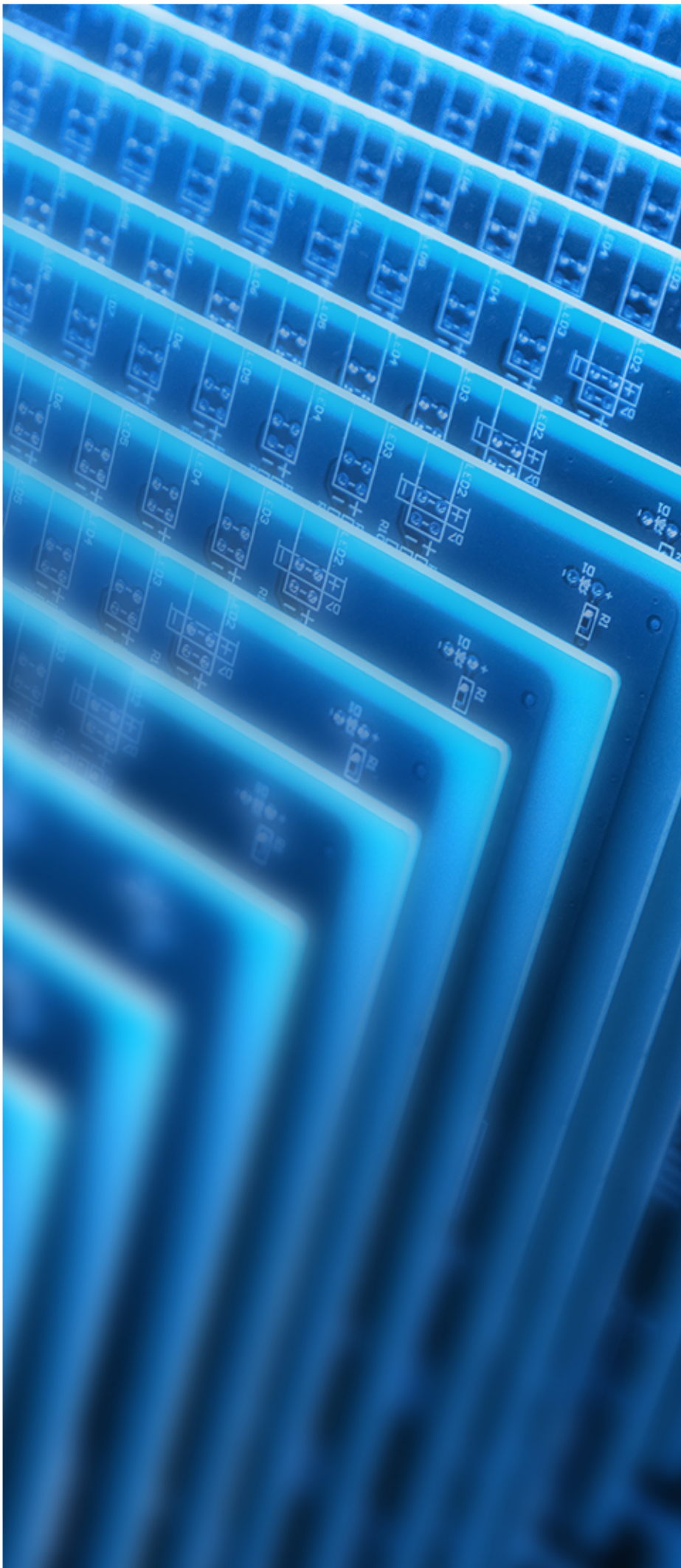
This motherboard has been developed as a reference product and can be customized to your needs.

To ask for a customized solution, please contact our team at:

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