

Features

- Rockchip RK3568 Quad-Core Cortex A55, up to 2.0GHz
- With built-in 1.0 TOPS NPU, enhancing computing power and AI processing
- LPDDR4X 2GB onboard, up to 4GB
- eMMC onboard 16GB/32GB, expandable up to 64/128GB
- Variety of Display output for option: HDMI, eDP, MIPI-DSI, 1x Dual 8-bit LVDS
- Support Dual-screen output simultaneously
- Support 2.4GHz & 5GHz +BT 4.2 (1T1R), 2x GbE Ethernet, expansion MiniPCle slot for 4G module., LCC Compatible
- Rich IO: 9x USB, 4x RS232/485, 3x CAN, 1x SATA, 12x GPIO (including SPI/I2C/ADC)
- Android 11 support

Introduction

MTB-710B is a high-performance single-board computer designed for Industrial IoT (IIoT) and smart manufacturing, powered by Rockchip RK3568 quad-core Cortex-A55 processor and 1.0 TOPS NPU. With dual Gigabit Ethernet, WiFi, Bluetooth, and 4G LTE, it's ideal for a wide range of industrial applications. It offers 2GB or 4GB of LPDDR4X memory with expandable storage up to 128GB, tailored for data-intensive environments.

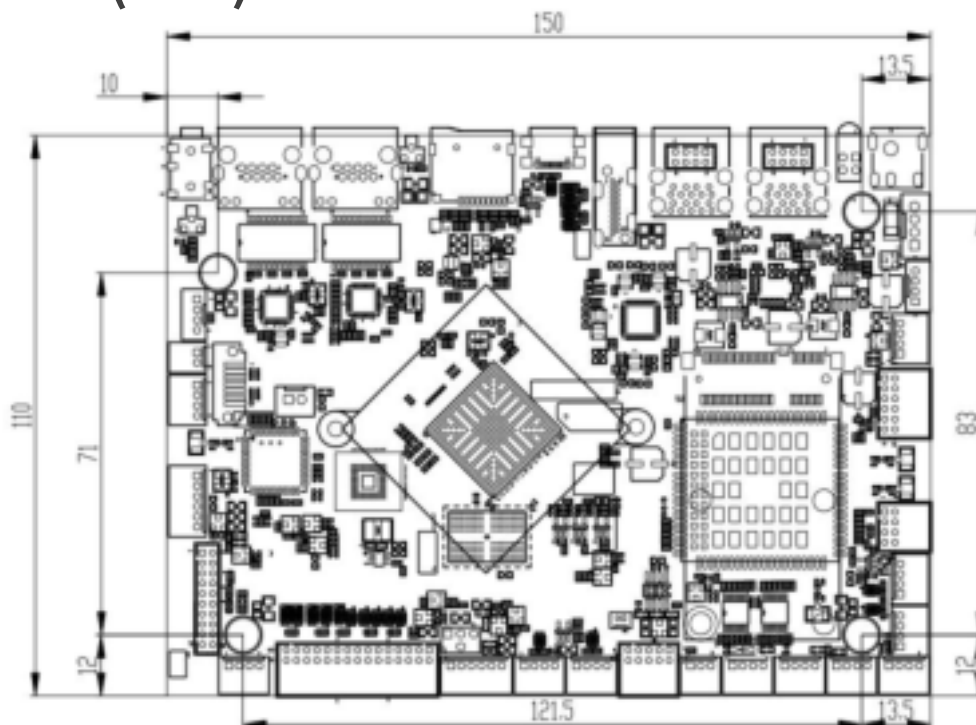
A variety of I/O interfaces, such as USB 3.0, RS232/RS485, CAN Bus, and GPIO, enable seamless integration into diverse industrial automation systems. The 1.0 TOPS NPU enhances industry-specific functions: in manufacturing, it facilitates real-time anomaly detection, boosting production efficiency; in smart buildings, it provides traffic analysis and security monitoring; and in logistics, it supports cargo identification and tracking, optimizing supply chain management. With its robust connectivity and AI capabilities, MTB-710B is a versatile solution for intelligent industrial applications.

Specification

System	Processor	Rockchip RK3568 ARM Quad-Core Cortex-A55 SoC Processor up to 2.0GHz
	Memory	LPDDR4X, 2GB onboard, up to 4GB
	Storage	eMMC onboard 16GB/32GB, expandable up to 64/128GB
	Display	1x HDMI, 1xeDP, 1x MIPI-DSI, 1x Dual 8-bit LVDS



Dimension(mm)



Specification

Connectivity	Wi-Fi+BT	Wi-Fi 2.4GHz & 5GHz +BT 4.2 (1T1R)
	LAN	10/100/1000Mbps
I/O Interface	Ethernet	2x RJ45 connector
	USB Port	1x OTG Type-C, 4x USB 3.0 Type A, 4x USB 2.0 Type C (PH 2.0, 4-pin connector)
	Audio	1x MIC-in (2P, PH 2.0 header); 1x 5W/8Ω speaker out w/ 4P header ; 1x 3.5mm headphone socket
	UART	4x RS232/485 multiplexed interface
	GPIO	12x GPIO (including SPI, I2C, ADC), 3x CAN, 1x SATA
	Slot	1x SIM Card slot (Top side); 1x Standard TF Card slot (on the rear)
	Indicator	1x dual-color LED indicator (Red-green light)
	Expansion	1x MiniPCIe slot (optional LLC) for 4G LTE module, 1x SIM Card Slot
	Others	1x Reset Button
Power Supply		1x 12V DC Power Input, 2.5mm DC Jack (Reserve 1x 2Pin connecto with PH 2.54mm for Power)
Dimension		150x 110x 25mm
Operating Temperature		0°C ~ 60°C (0% to 90% RH, non-condensing)
Safety		ESD Level 3
Operating System		Android 11



I/O Briefing

