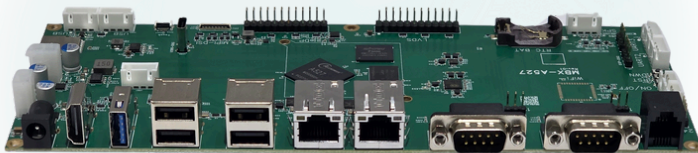


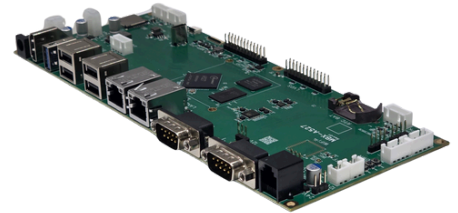
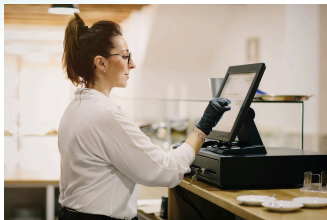
COMING SOON



Features

- High-performance Octa-Core Cortex-A55 SoC processor, up to 2.0GHz
- Built-in Integrated ARM G57 MC01 GPU for High performance multimedia processing with low power consumption
- 4GB LPDDR4 Memory and 32GB eMMC onboard design
- Comprehensive connectivity: 2x Gigabit Ethernet and Wi-Fi6 +BT5.2 for option
- Flexible Media output for selection: HDMI, eDP, LVDS, MIPI-DSIx 4 lanes, support dual-screen output simultaneously
- Rich IO: 8 x USB, 2xRS232, 2xUART, 1x 1W stereo Amp 4Ω
- Support Android 15 and Linux-Debian, Ubuntu

Best POS Application



Introduction

MBX-A527 is a high-performance embedded board designed for POS (Point-of-Sale) systems and retail applications, offering exceptional processing power and connectivity. Featuring an Octa-Core ARM Cortex-A55 processor up to 2.0GHz and 4GB LPDDR4 memory, it ensures smooth and efficient operations. Equipped with dual Gigabit Ethernet, WiFi 6, and Bluetooth 5.2, MBX-A527 enables seamless network connectivity for modern retail environments. It supports multiple display interfaces including HDMI, MIPI-DSI, LVDS, and eDP, allowing dual-screen output—ideal for interactive kiosks, self-service terminals, and digital signage. With 8xUSB ports, 2xRS232, 2xUART interfaces, and a cash drawer port, it integrates effortlessly with peripherals such as barcode scanners, receipt printers, and payment terminals. Running Android 15, it provides a flexible software environment for retail and self-service solutions.

Beyond retail, MBX-A527 is also well-suited for hospitality, vending machines, and industrial control applications, making it a versatile embedded platform.

Specification

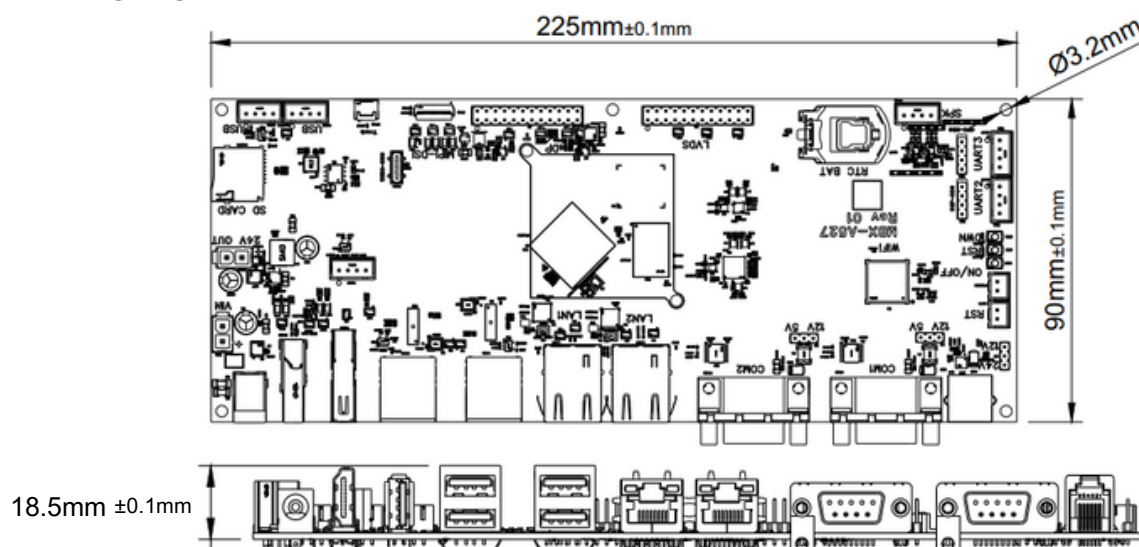
System	Processor	8x ARM Cortex-A55 up to 2.0GHz
	Memory	Onboard LPDDR4 4GB
	Storage	32GB eMMC (Option to 64GB/128GB)
	Graphics	For internal LCD: MIPI-DSI up to 1920x1080; LVDS up to 1366x768; eDP up to 1920x 1080; For external Display: HDMI up to 1920x 1080



MBX-A527

POS-Optimized Embedded Board

Dimension(mm)



Specification

System	Display	MIPI-DSIx 4 lanes, eDP, LVDS, HDMI
	Touch	I2C with RST/INT For 10.1" LCD
Connectivity	WLAN	WiFi 6+ BT 5.4 for Option
	LAN	10/100/1000Mbps
I/O Interface	Ethernet	2x RJ45 connector
	USB Port	4x USB 2.0 Type-A (HS), 1x USB 3.0 Type A (SS)
	COM	2x RS232, DB9 connector with CTS/RTS, PIN9 supports 5V/12V (selectable by jumper)
	Cash Drawer	1x RJ12 6P/6C, 12V/24V selectable by jumper
	Expansion	1x Micro SD slot, support SDXC up to 256GB
	RTC	Support via a Battery Socket (CR2032)
Internal I/O	USB	3x USB 2.0 HS via 3x4P WAFER
	UART	2x 4P wafer w/ 2.5mm PH, 3.3V level w/ 5V output
	Audio	1x 1W stereo Amp 4Ω
Others		1x 24V IN Conn., 1x 24V OUTPUT Conn., 1x Type-C for ADB, 1x RST Button, 1x DWN Button
Expansion		1x Micro SD slot, support SDXC up to 256GB
Power Supply		24V Power Input via DC Jack 5.5/2.5mm; Passthrough 24V output for printer
Dimension		225x 90mm
Operating Temperature		0°C ~ 70°C (0% to 90% RH, non-condensing)
Storage Temperature		-40°C ~ 85°C
Operating System		Android 15, Linux-Debian, Ubuntu

