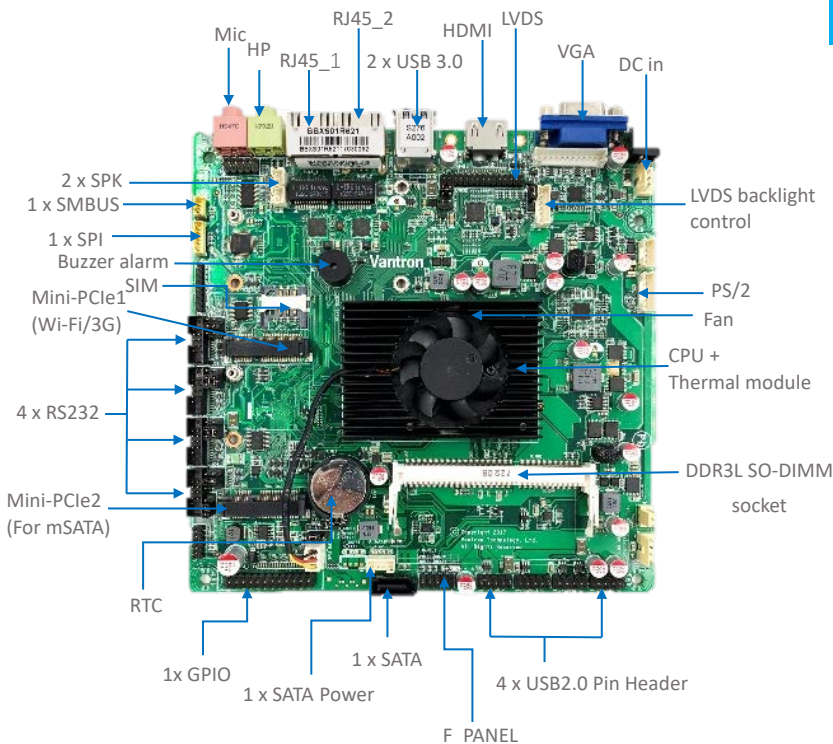# VT-MITX-SKLU Single Board Computer

Product Brief Introduction

VT-MITX-SKLU Single Board Computer is in line with international industry size standards. It is powered by the high-performance, cost-effective Intel® Core™ processor and customers have the choice between Windows and Linux operating systems. The board supports multi-channel display outputs and high-definition video encoding and decoding technology to provide outstanding visual experience. Better yet, it provides rich on-board interfaces and customer expansion options to meet different application scenarios including smart retail, self-service terminals, industrial automation, intelligent medical health, and digital media.

Featuring high reliability and high performance, the board could work under extreme environments with extended temperatures ranging from 0℃ to +60℃, making it a reliable industrial IoT solution.

Exterior and Features

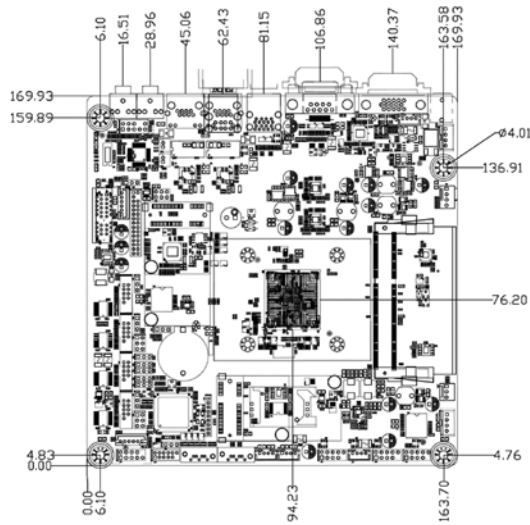### VT-MITX-SKLU

Intel® Core™, i3/i5/i7 processor

Up to 8GB SODIMM DDR3L

Rich interfaces, flexible expansion

High-definition video encoding and decoding

RTC supported

USB 2.0 & USB 3.0

Wide temperature range supported

VT-MITX-SKLU Single Board Computer Datasheet

VT-MITX-SKLU		
System	CPU	Intel® Core™, i3/i5/i7 processor
	Memory	DDR3L SO-DIMM socket, up to 8GB
	Storage	1 x SATA
Communication	Ethernet	2 x RJ 45, 10/100/1000-Base T, RTL8111F
Media	Display	1 x LVDS with backlight control (Optional: eDP) 1 x VGA 1 x HDMI
	Resolution	eDP: up to 3840 x 2160 LVDS: up to 1920 x 1080 VGA: up to 1920 x 1080
	Audio	1 x Mic 1 x Headphone 2 x Speaker connector 1 x Buzzer alarm (Optional)
I/Os	Serial	4 x RS232
	USB	7 x USB 2.0 (one for 3G module) 2 x USB 3.0
	GPIO	8 x GPIO
	SPI	1 x SPI
	RTC	Supported
	Others	1 x PS/2 connector 2 x Fan connector (3-pin)
Expansion	Bus	1 x Mini-PCIe slot for mSATA 1 x Mini-PCIe slot for Wi-Fi/3G (with SIM slot) 1 x SMBUS
Power	Input	12V DC (±10%)
	Consumption	38W
Software	Operating system	Windows, Linux
	OTA tool	BlueSphere OTA
	SDK	Available
Mechanical	Dimensions	MITX standard board, 170mm x 170mm
	Cooling mode	Fan, heat sink
Environment Condition	Temperature	Operating: 0℃~+60℃ Storage: -20℃~+80℃
	Humidity	RH 10%-85% (Non-condensing)

Product Outlines

Company Profile

Since 2002 established by two Silicon Valley entrepreneurs, Vantron Technology has been a pioneer in connected IoT devices and IoT platform solutions. Today, Vantron serves countless customers all over the world, some of them are Fortune 500 companies. Products lines cover edge intelligent hardware, IoT communication devices, industrial displays and BlueSphere cloud device management platform.

Vantron has 20 years of experience in R&D of embedded edge intelligent hardware like SOM board and motherboard, and provided users with various embedded solutions with ARM and X86 architecture. From Linux to Windows, from embedded to desktop level, from gateway to server. At the same time, we provide our users with system clipping, driver transplantation and other services.

Vantron IoT communication devices support multi-protocol connection of industrial equipment, edge computing of local data. Abundant wired and wireless connectivity make remote operations and maintenance possible. From electricity and transportation to smart retail, medical and warehousing, Vantron IoT communication device can be deployed anywhere in any business section. Vantron believes its IoT solution to help many companies finish their digital transformation, efficiency of manufacturing and productivities have been improved significantly.

Vantron industrial display systems, ARM and X86 series, are equipped with Rockchip, NXP, MediaTek, Intel and other high-performance processors. It supports various operating systems such as Windows, Linux, and Android. Diverse wireless communications keep your device online all the time. Multiple installation methods make it suitable for a variety of application scenarios. Features like waterproof, dustproof, shatter resistant guarantee the best performance in any environment.

Vantron BlueSphere device management platform, a software product, is playing a big role in Vantron overall IoT solution. Today, Vantron puts more focus on offering complete cost effective, leading-edge yet reliable solutions to help customers carry out their visions.