

# Y-C28 Carrier Board



## Key Feature

- Compatible with NVIDIA® Jetson™ Thor / AGX Orin
- Rich I/Os: 1×HDMI, 4×Gigabit Ethernet, 2×USB Type-C, 4×USB Type-A, 2×GPIO, 4×CAN, 4×UART
- Expansion Slots: 1×miniPCIe, 1×M.2 M 2280, 1×M.2 B 3050
- Operating Temperature: -40°C ~ +85°C
- Input Voltage: DC 9V ~ 36V Wide Range

## Introduction

Y-C28 is an edge AI computing carrier board designed for NVIDIA® Jetson™ Thor / AGX Orin, ideal for robotics, industrial automation, autonomous driving and other demanding edge deployments. It features industrial-grade high-reliability design with ESD, over-voltage and reverse polarity protection. All components are wide-temperature rated for stable operation in harsh environments. An RTC power connector is integrated to maintain clock synchronization when main power is off. With a compact layout of 140mm×120mm×37.6mm, Y-C28 routes key interfaces to one side for easy integration.

It supports 4×4/6×2 Lane MIPI CSI cameras and offers flexible expansion for multi-channel HD cameras, Gigabit Ethernet, high-capacity storage, Wi-Fi and 5G modules. Integrated SPI/GPIO/CAN/UART interfaces support secondary development and customization. A power output connector is also provided to directly supply external peripherals.



Website



Mobile Robot



Intelligent Driving



cleaning robot



Industrial Automation

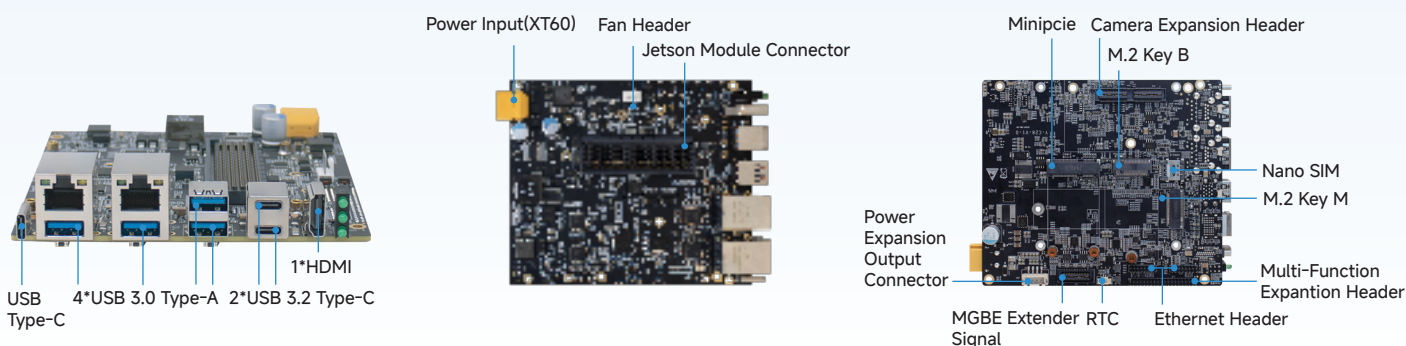


Smart Medical

## Specifications

<b>Module</b>	Jetson Thor/AGX Orin
<b>Display</b>	1 x HDMI
<b>USB</b>	2× USB Type-C、4× USB Type-A
<b>Networking</b>	4 xGbE(2x RJ45、2x 16pin Header)
<b>Button</b>	1x Power、1x Recovery、1x Reset
<b>Camera</b>	6x 2 Lane MIPI CSI /4x 4 Lane MIPI CSI
<b>Expansion</b>	1x miniPCle、1x M.2 M key (2280) 、1x M.2 B key (3050) 、1x nano SIM
<b>Functional Signals</b>	2x I2C、1x I2S、1x SPI、2x GPIO、4x CAN
<b>Serial Ports</b>	4x UART 3.3V
<b>Temperature</b>	-40°C~+85°C
<b>Dimensions</b>	140mm x 120mm x 37.6mm
<b>Power</b>	DC 9V-36V
<b>Weight</b>	208g

## Interfaces



## Dimensions

