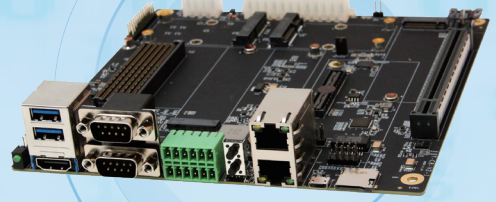


# Y-C8 Carrier Board



## Key Feature

- Compatible with Jetson™ AGX Orin / AGX Xavier
- Display : 1×HDMI
- Rich I/O Interfaces: 2×RJ45, 2×USB3.0 Type-A, 1×Micro USB, 1×Micro SD, 2×CAN, 4×GPIO, 1×SPI, 1×I2C, 1×I2S, 2×RS232
- Expansion Slots: 2×miniPCIe (USB2.0 & PCIe x1), 2×M.2 M 2280, 1×PCIe x16
- Camera: 6×2 Lane MIPI CSI, 4×4 Lane MIPI CSI
- Operating Temperature: -40°C ~ +85°C
- Input Voltage: DC 12V

## Introduction

Y-C8 is a standard Mini-ITX edge AI carrier board built for NVIDIA® Jetson™ AGX Orin / AGX Xavier, with rich I/O and strong expansion for industrial automation, intelligent transportation, smart healthcare and autonomous driving.

It features industrial-grade high-reliability design with ESD, over-voltage and reverse polarity protection, and wide-temperature components for stable operation. A single-side concentrated interface layout simplifies mechanical design. MIPI CSI ports support industrial cameras. PCIe x16, dual miniPCIe and dual M.2 M slots enable flexible expansion of multi-channel Gigabit Ethernet, 4G, USB3.0, SATA, high-capacity storage, video capture and multi-serial modules.



Website



Machine Vision



Machine Control



Logistics AGV

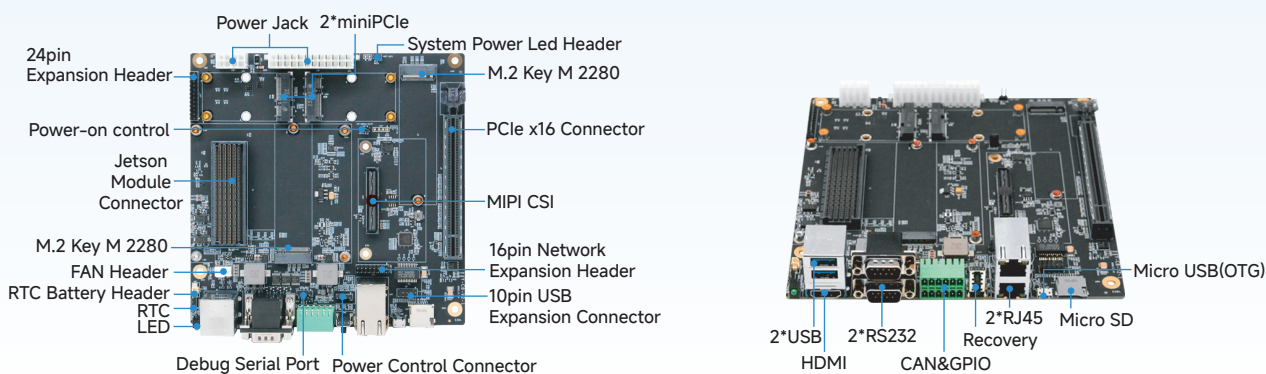


Intelligent Driving

## Specifications

<b>Module</b>	Jetson AGX Orin/AGX Xavier
<b>Display</b>	1 x HDMI
<b>USB</b>	2x USB 3.0 Type-A, 1x Micro USB (OTG)
<b>Networking</b>	2x RJ45
<b>SD Card</b>	Micro SD
<b>Button</b>	1x Recovery, 1x Reset
<b>Camera</b>	6x 2 Lane MIPI CSI, 4x 4 Lane MIPI CSI
<b>Expansion</b>	2x miniPCIe, 2x M.2 Key M (2280) 、1x PCIe16
<b>Functional Signals</b>	2x CAN, 4x GPIO, 1x SPI, 1x I2C, 1x I2S
<b>Serial Ports</b>	2x RS232
<b>Temperature</b>	-40°C~+85°C
<b>Dimensions</b>	170mm × 170mm × 34.7mm
<b>Power</b>	DC +12V
<b>Weight</b>	260g

## Interfaces



## Dimensions

