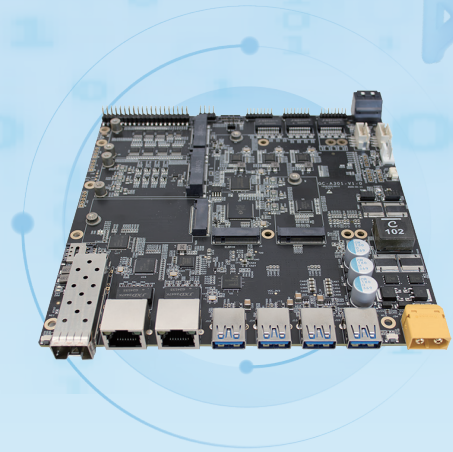


GC-A301 Carrier Board



Key Feature

- Based on Ascend 310P processor
- Display Interface: 1 × HDMI (Optional)
- Rich I/O Interfaces: 4 × USB3.0 Type-A, 2 × RJ45, 1 × FC
- Expansion Slots: 2 × miniPCIe, 1 × M.2 M-Key 2280/2242, 1 × M.2 B-Key 3050, 1 × Nano SIM, 2 × SATA power interfaces
- Operating Temperature: -40°C ~ +85°C
- Input Voltage: DC 9V ~ 36V

Introduction

GC-A301 is an industrial-grade development board specifically designed for edge AI scenarios. Its core is equipped with the Ascend 310P processor, delivering up to 176 TOPS INT8 of AI compute, which meets the performance requirements for real-time AI inference in fields such as industrial quality inspection, autonomous driving, intelligent transportation, and intelligent healthcare.

To ensure stable operation in complex environments, this board uses wide-temperature components, and all interfaces have been designed with electrostatic safety protection. It also adopts a high-reliability power supply solution and features input overvoltage and reverse polarity protection functions.



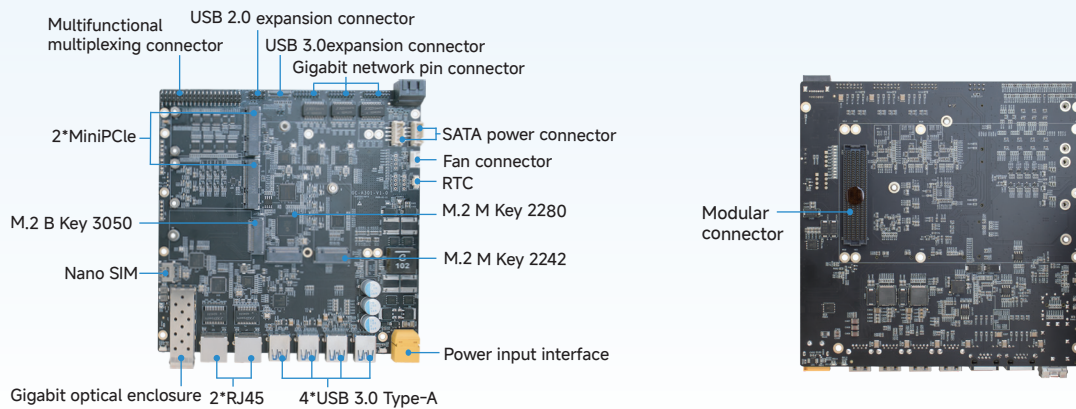
Website



Specifications

Module	AI310SM module (Ascend 310P)
USB	4x USB 3.0 Type-A
Networking	6x Gigabit network (2x RJ45+ 3x 16pin Header+ 1x FC)
Button	Select 4 startup methods via the J60 jumper wire. 1.EMMC 2.PXE FTP 3.SATA 4.NVME
Expansion	2x miniPCle、1x M.2 Key M(2280)、1x M.2 Key M(2242)、1x M.2 Key B(3050)、1x Nano SIM、2x SATA(Power Supply)
Functional Signals	4xCAN, 2xSPI, 2xIIC, 4xGPIO
Serial Ports	4x UART
Temperature	-40°C~+85°C
Dimensions	164mm*164mm*22mm
Power	DC 9V~36V
Weight	204g

Interfaces



Dimensions

