品立科技
PLink-AI

Y-C18
Carrier Board

Key Feature

- Compatible with Jetson™ Orin NX/Orin Nano
- Display: 1x HDMI
- Rich I/O:1x RJ45,4x USB Type-A,6x GPIO,2x I2C,2x SPI,1x I2S,1x CAN
- Camera:2x 4 Lane MIPI CSI
- Expansion Slots: 1x M.2 E 2230, 1x M.2 M 2230, 1x M.2 M 2280
- Operating Temperature:-25°C~+60°C
- Input Voltage:DC 9V~19V

Introduction

The Y-C18 is an industrial-grade carrier board purpose-built for the NVIDIA® Jetson™ Orin NX and Orin Nano Modules. With a compact form factor of 100 mm × 79 mm × 22.8 mm, it delivers robust I/O capability, deterministic connectivity, and scalable expansion—optimized for mission-critical edge AI deployments in industrial, medical, and autonomous systems.

Engineered for reliability in demanding environments, the Y-C18 features comprehensive circuit protection, including ESD safeguarding on all external interfaces, input overvoltage protection, and reverse-polarity prevention. All onboard components are rated for extended temperature operation, ensuring stable performance across a wide ambient temperature range of –25°C to +60°C.

The board supports high-bandwidth vision acquisition through dual 4-lane MIPI CSI interfaces, enabling simultaneous connection of industrial-grade cameras. For storage and wireless expansion, it integrates two M.2 Key M slots (supporting 2230 and 2280 SSD) and one M.2 Key E slot (2230) for Wi-Fi module.

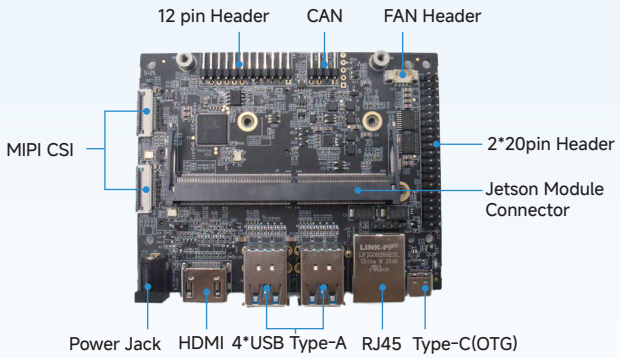
Website

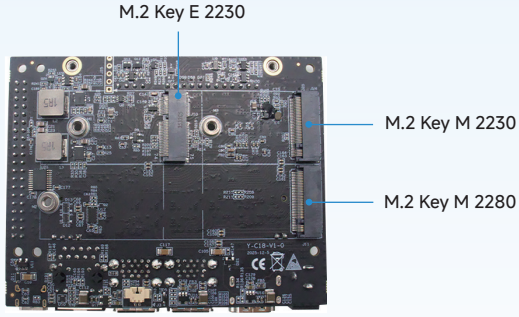
www.plink-ai.com 400-127-3302 Beijing PLink AI Technology Co.,LTD.

Specifications

Module	Jetson Orin NX/Orin Nano
Display	1 x HDMI
USB	4×USB 3.0Type-A
Networking	1x RJ45
Camera	2x4 Lane MIPI CSI
Expansion	1x M.2 E key（2230）、1x M.2 M Key（2230）、1x M.2 M Key（2280）
Functional Signals	6x GPIO、2x I2C、2x SPI、1x I2S、1x CAN
Serial Ports	1x TTL
Temperature	-25°C~+60°C
Dimensions	100mm x 79mm x 22.8mm
Power	DC 9V~19V
Weight	77g

Interfaces





Dimensions