

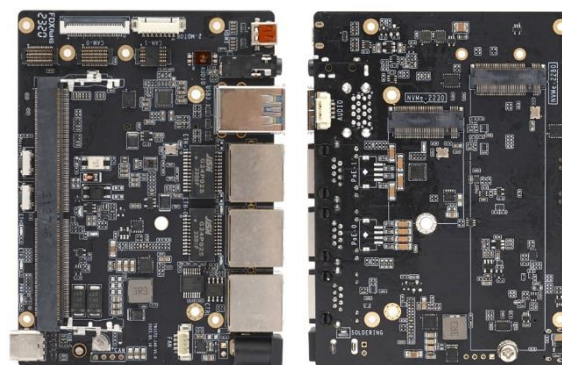
# FWJ100-BB

Nvidia Jetson carrier board

FWJ100-BB is a carrier board that can mount Jetson Orin Nano, Jetson Orin NX modules. MIPI CSI-2 interface which is suitable for camera integration. With two Gigabit Ethernet ports, it is ideal for application of separated network applications, and USB 3.2 ports (Type-C x 1EA, Type-A x 2EA) are built-in to connect USB storage devices. In addition, it supports NVMe (M.2 2280 x 1EA, M.2 2230 x 1EA) slot, so you can use it for MiniNVR by installing high-speed, large-capacity SSD. The board provides an optimal solution for an edge device such as smart farms, smart factories, image analysis devices, AI development, video analysis, and medical devices.

## Product Features

- Mount Jetson Orin Nano, Jetson Orin NX Module available (260-pin SO-DIMM connector)
- 1 x USB 3.2 Port (C Type)
- 2 x USB 3.2 Port (A Type)
- 1 x NVMe M.2 2280
- 1 x NVMe M.2 2230
- 2 x Gigabit Ethernet Ports
- 1 x Debugging Port
- 1 x Micro HDMI (D Type)
- Camera Connection
  - 3 x Double Row Board to Board Connector (1 x Reserved)
- 1 x 3.5mm 4-Pole Audio Jack
- 1 x CAN BUS Pin Header (2.54mm, 4pin/NC)
- Recovery Switch
- Factory Default Switch
- Status LED (2 x Ethernet, 1 x Power)
- 1 x DC Power Jack (DC 12V/5A)



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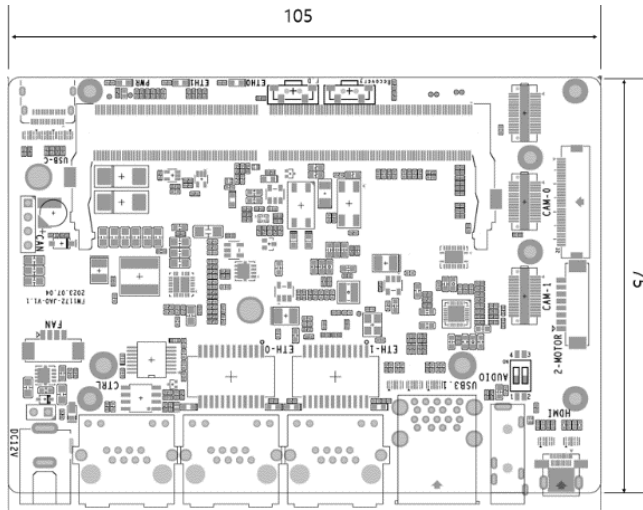
## Tech Notes

### \* Support high-speed mass storage interface

It supports NVMe by default, so it is ideal for data storage and utilization by mounting an SSD.

## FWJ100-BB

## Technical Specifications



Connection	
Target	Jetson Orin Nano or Jetson Orin NX
Connector	260-pin SO-DIMM
USB	
USB 3.2 (Gen2)	1 x C Type (Front)
USB 3.2 (Gen2)	2 x A Type (Back)
M.2	
NVMe	1 x 2280
NVMe	1 x 2230
Network	
Wired Network	2 x Gigabit Ethernet Ports (RJ45 with LED)
Debugging	1 x Debugging Port (on Automation Header)
Video	
Interface	1 x Micro HDMI (D Type)
Camera Connection	
Connector	3 x Double Row Board to Board 30Pin (0.5mm pitch)
Interface	MIPI CSI-2 v2.0
	2 x Double Row Board to Board 4 Lane MIPI CSI-2 (Include Camera Control Port)
	1 x Double Row Board to Board (Reserved)
Support	Camera CLK, I2C, Control
Audio	
Interface	1 x 3.5mm 4-Pole Audio Jack (PJ-328C)
CAN BUS	
Pin Header	1 x 2.54mm, 4pin/NC
H/W	
Switch	Recovery, Factory Default
Status LED	2 x Ethernet, 1 x Power
Fan Connector	5V, PWM, Tach
Power	DC 12V/5A
	1 x DC Power Jack (DC 12V/5A)
Size	105(W) x 75(D) mm
Weight	Approx. 70g

## Accessory (Jetson Orin Nano)

SoM	Jetson Orin Nano
CPU	A78AE ARMv8.2 (64-bit)
	Heterogeneous Multi-Processing (HMP)
GPU	CPU Architecture
	NVIDIA Ampere GPU

## Accessory (Jetson Orin NX)

SoM	Jetson Orin NX
CPU	A78AE Armv8.2 (64-bit)
	Heterogeneous Multi-Processing (HMP)
GPU	CPU Architecture
	NVIDIA Ampere GPU

## Accessory (Fan &amp; Heatsink)

## Appearance



Compatible	Jetson Orin Nano or Orin NX
Fan	DC 5V (11000rpm, 58x39x18mm)
Heatsink	Aluminum (Form bound to FAN)
Size	58(W) x 39(D) x 18(H) mm
Weight	Approx. 50g