# FWS100-NX

**Nvidia Jetson AI Bridge**

FWS100-NX AI Bridge is a product equipped with Jetson Xavier module. It supports CSI/MIPI interface and can be used as a board for camera development., In particular, it has two built-in Gigabit Ethernet ports, so it can be used in applications for separation of networks. In addition, USB3.0 and USB2.0 ports are built-in, and through this, USB storage devices and SD storage devices can be used. By using the Carrier board, it is possible to use as Mini PC, NVRs, cameras, etc. and as a representative application, it can be used where an expensive operating system is used on the Intel CPU board. We provide the optimal solution for edge equipment development using the provided AI function.

## Features

- Core Module : Nvidia Jetson Xavier

- Micro B Type (5Pin) USB 2.0 port, A Type USB 3.0 port

- RJ45 Gigabit Network x 2 ports

- 1 Port Mini HDMI display

- 1 x Di/Do port

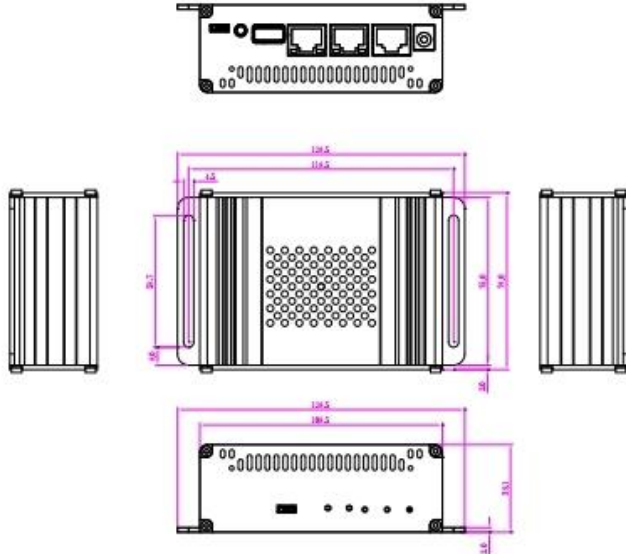- Fanless Product

- Supports Serial Port for debugging



## Tech Notes

Apart from the Deepstream SDK provided by NVIDIA, we provide our own SDK so that the AI model being used by the customer can be interfaced and utilized. The SDK is sold separately from the hardware sales, and supports the OpenCV video class interface so that the customer can focus on the optimization of the AI model without worrying about interlocking IP cameras, decoding, storing, and retransmitting the stream.

# FWS100-NX

# Technical Specifications

| Dimension | 128.5(W) x 79.0(D) x 39.1(H) mm |
|---|---|
| Weight | About 310 Gr (without Power Supply) |
| Accessories | |

**For more detailed specifications,
Please refer to the product approval sheet.**

| System | |
|---|---|
| Core Module | Nvidia Jetson Xavier |
| **USB** | |
| USB 2.0 | 1 x USB Micro B (5Pin) Type (for Jetson Module Flash Writing) |
| USB 3.0 | 1 x USB A Type |
| **Network** | |
| Wired Network | 2 x RJ45 Gigabit Ethernet ports (RJ45 Connector with PoE and LEDs) |
| **Display** | |
| Video Output | Micro D type HDMI x 1 port |
| **GPIO & Di/Do** | |
| Di/Do | Each 1 port |
| Audio | 1 Mic input, 1 Speaker output |
| **Interface** | |
| Interface | - Jetson force recovery mode switch<br>- Factory Default switch<br>- DC input port<br>- Micro D type HDMI output port<br>- 2 x RJ45 Ethernet Female ports<br>- Audio port (PJ-328C / 4 Position) |
| **Hardware** | |
| Expansion Header | 40 Pin (2x20) Header<br>I2C (x2), SPI (x2), UART<br>I2S, Audio Clock, GPIOs, PWM |
| M.2 Key E Connector | PCIe x 1 lane,<br>USB 2.0, I2S, UART, I2C Control |
| Serial port | Supports Serial port for debugging (on automation header) |
| Switch | Force recovery mode, Factory Default |
| Power Supply | SMPS, 12VDC 3A |