### FWS100-NN

### **Nvidia Jetson AI Bridge**

FWS100-NN AI Bridge is a product equipped with Jetson Nano 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 Nano
- Micro B Type (5Pin) USB 2.0 port, A Type USB 3.0 port
- RJ45 Gigabit Network x 2 ports
- Stacked Connector: Mini HDMI display
- Camera Connections
   2x15 Position Board to Board connector
- PCIe x 1 Lane, I2S, UART, I2C control, FAN control (PWM)
- Serial Port for debugging



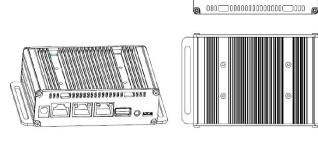


#### **Tech Notes**

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 inferencing 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.

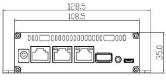
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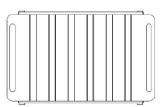
# **Technical Specifications**



Serial port	(on automation header)
Switch	Power, Reset, Factory Default
Power Supply	SMPS, 12VDC 3A
Dimension	128(W) x 79(D) x 35(H) mm
Weight	About 280 Gr (without Power Supply)
Accessories	







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

System	
Core Module	Nvidia Jetson Nano
USB	
USB 2.0	1 x USB Micro B (5Pin) Type
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	Mini HDMI x 1 port
Camera Connections	
Connector	2x15 Board to Board Connector
Supports specifications	Each connector supports 3 CSI Lanes Camera CLK, I2C and control
Interface	
Interface	<ul> <li>Reset switch</li> <li>Factory Default switch</li> <li>DC input port</li> <li>Mini HDMI output port</li> <li>2 x RJ45 Ethernet Female ports</li> <li>Audio port (PJ-328C / 4 Position)</li> </ul>
Hardware	
Expansion Header	40 Pin (2x20) Header I2C (x2), SPI (x2), UART I2S, Audio Clock, GPIOs, PWM
M.2 Key E Connector	PCIe x 1 lane, USB 2.0, I2S, UART, I2C Control