



JETBOX-FLOYD is a compact Nvidia Jetson AI computing platform ready to deploy. It includes the Jetson Nano or NX module installed on our **FLOYD** carrier board with a Linux OS installed and preconfigured to support all the I/O on Floyd.

The system is available multiple standard configurations to meet a range of customer needs. The 01 full-feature models feature dual Ethernet ports with PoE support using an external power injector, two multi-protocol serial ports, dual HDMI displays, and a PCIe / USB minicard socket. The 02 low-cost models have fewer baseline I/O features but offer a faster-performance PCIe x4 NVME M.2 socket. Both models will support one channel of CAN 2.0B with the Xavier NX module installed.

Jetbox-Floyd features multiple expansion sockets for additional I/O and storage capacity to meet a wide range of application needs. Dual SMA antenna cutouts support the installation of wifi and cellular modem modules for network connectivity. The enclosure is DIN rail mountable or can be used in a "table top" scenario.

The system is compatible with both 12V and 24V DC power supplies. A 12VDC universal AC adapter is included with the system.

[top](#)

Product Configurations

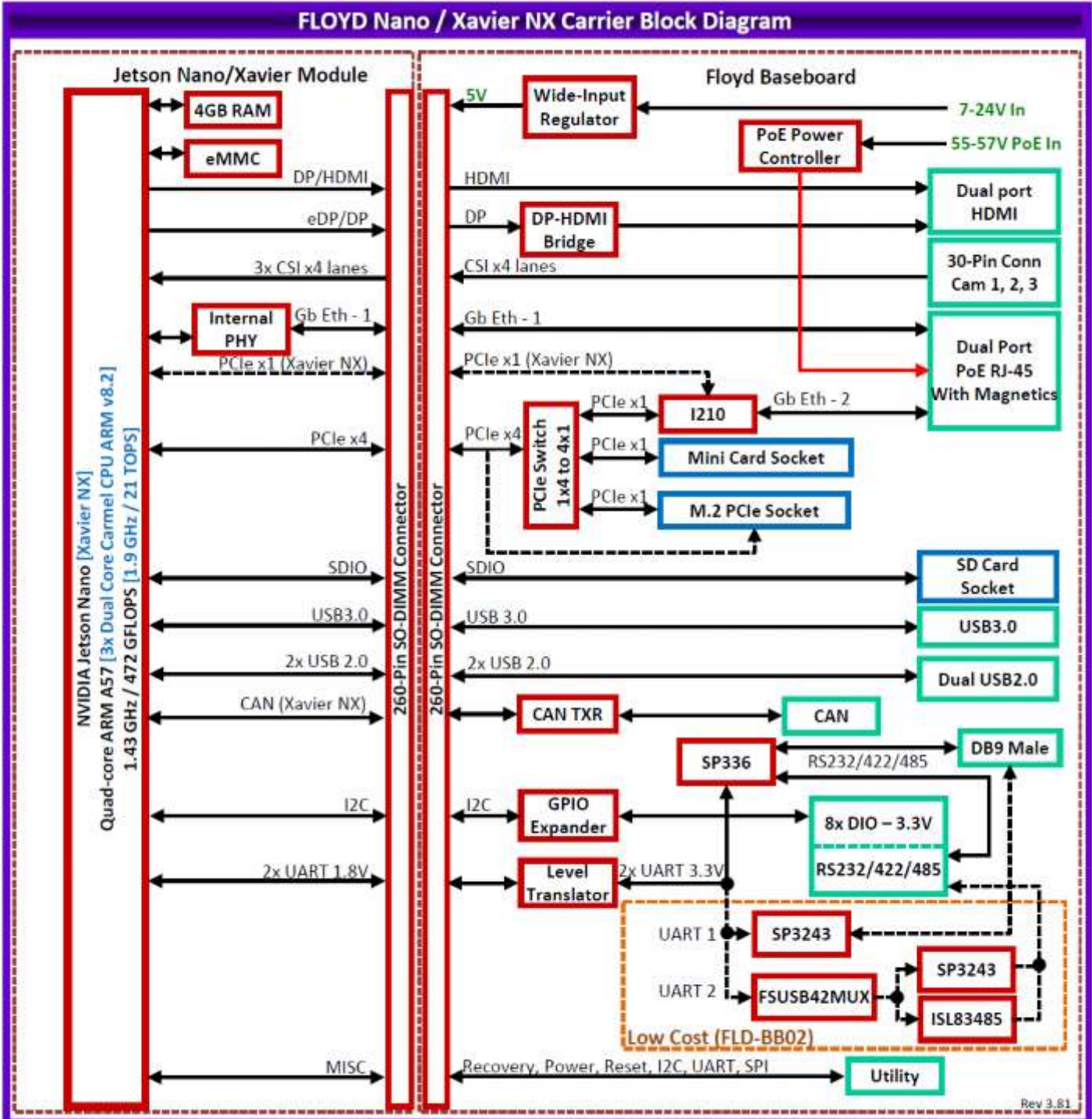
Jetbox-Floyd is available in four standard baseline configurations of Jetson module and baseboard features:

Feature	JB-FLD-NAO-01	JB-FLD-NAO-02	JB-FLD-XNX-01	JB-FLD-XNX-02
Jetson module	Nano	Nano	Xavier NX	Xavier NX
Gigabit Ethernet	2	1	2	1
PoE	Both ports	No	Both ports	No
HDMI	2	1	2	1
Camera CSI 4-lane	3	3	3	3

USB 3.0	1	1	1	1
USB 2.0	2	2	2	2
M.2 2280 socket	PCIe x1	PCIe x4	PCIe x1	PCIe x4
Minicard socket	Full size PCIe + USB	No	Full size PCIe + USB	No
SD card	Yes	Yes	Yes	Yes
GPIO 3.3V	8	8	8	8
Serial	2x RS-232/422/485	1x RS-232 1x RS-232/485	2x RS-232/422/485	1x RS-232 1x RS-232/485
CAN 2.0	No	No	1	1

top

FLOYD Block Diagram



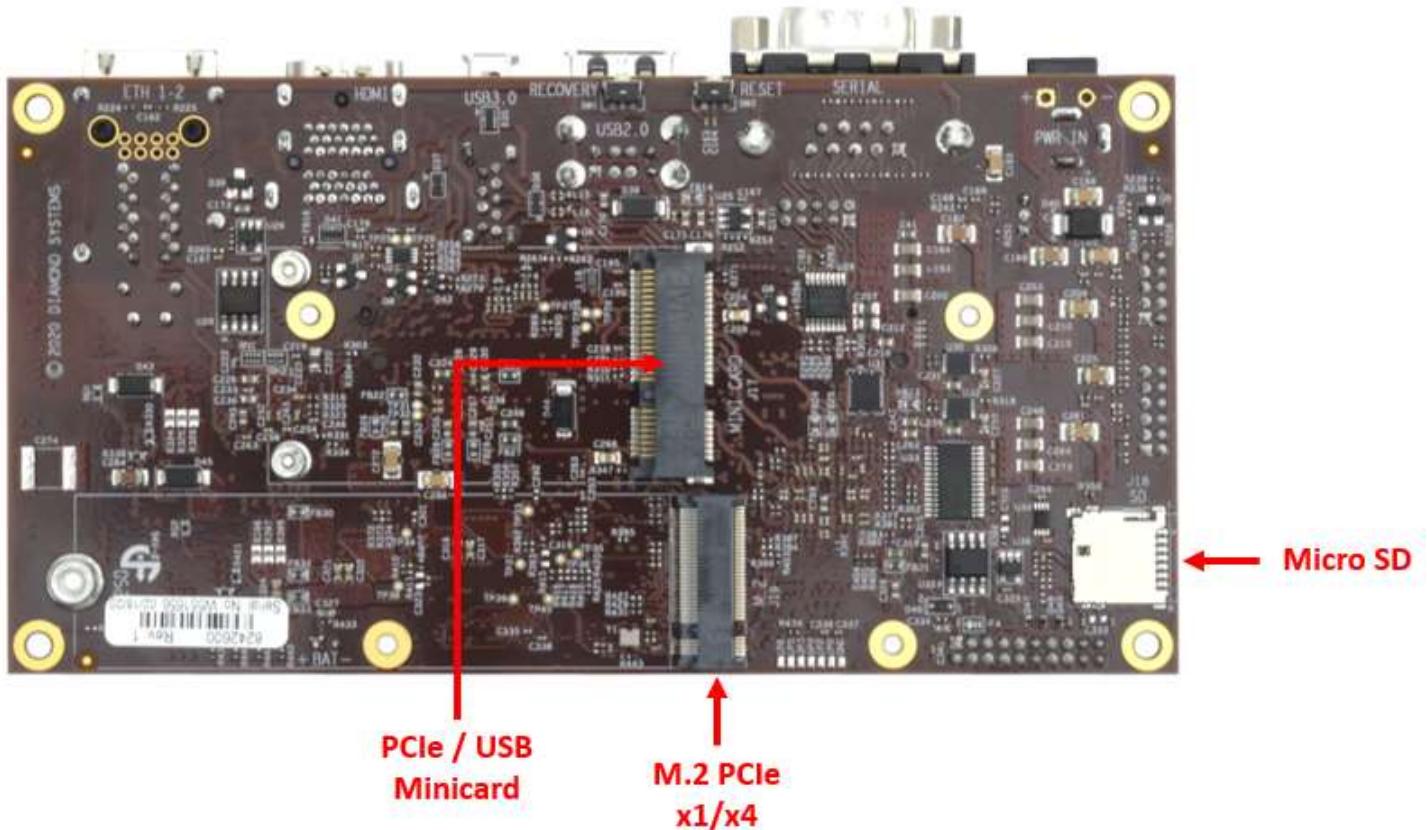
[top](#)

I/O Expansion

Jetbox-Floyd includes several options for I/o and memory expansion:

- The M.2 2280 socket may be used for additional flash storage using Diamond's flashdisks up to 2TB in capacity, or for I/O modules in M.2 2280 format. On 01 models the socket has a PCIe x1 interface, while on 02 models the interface is PCIe x4.
- The PCIe minicard socket accepts any full-size PCIe- or USB-based minicard. Check to be sure that drivers compatible with Nvidia Linux are available.
- A micro-SD card socket is also available for adding flash storage.

Note that all Jetson modules include built-in flash memory. Check the Jetson datasheets for specifics. This built-in flash contains Diamond's customized Linux based on Nvidia Jetpack for the installed Jetson module.



[top](#)

Customization

Jetbox-Floyd can be customized to fit your application needs. Typical customizations include:

- Change of case size / shape to accommodate additional I/O or electronics
- Installation of flash memory or minicard I/O modules
- Branding with your color and logo
- Change in I/O connector assortment based on your I/O needs
- Conformal coating of internal electronics
- Customization of the Linux OS or loading of your custom software



Please contact Diamond Systems Sales for further information.

[top](#)

Get an online quote

JETBOX-FLOYD Jetson Nano / NX System

available models:



- JB-FLOYD-NAO-01** Jetbox-Floyd complete Nano system based on Floyd BB01 full-feature carrier board; includes module, OS, and enclosure
- JB-FLOYD-NAO-02** Jetbox-Floyd complete Nano system based on Floyd BB02 low-cost carrier board; includes module, OS, and enclosure
- JB-FLOYD-XNX-01** Jetbox-Floyd complete NX system based on Floyd BB01 full-feature carrier board; includes module, OS, and enclosure
- JB-FLOYD-XNX-02** Jetbox-Floyd complete NX system based on Floyd BB02 low-cost carrier board; includes module, OS, and enclosure

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