JETBOX FLOYD-SC Compact NVIDIA Jetson Nano / NX / TX2 NX AI-at-the-edge computer system
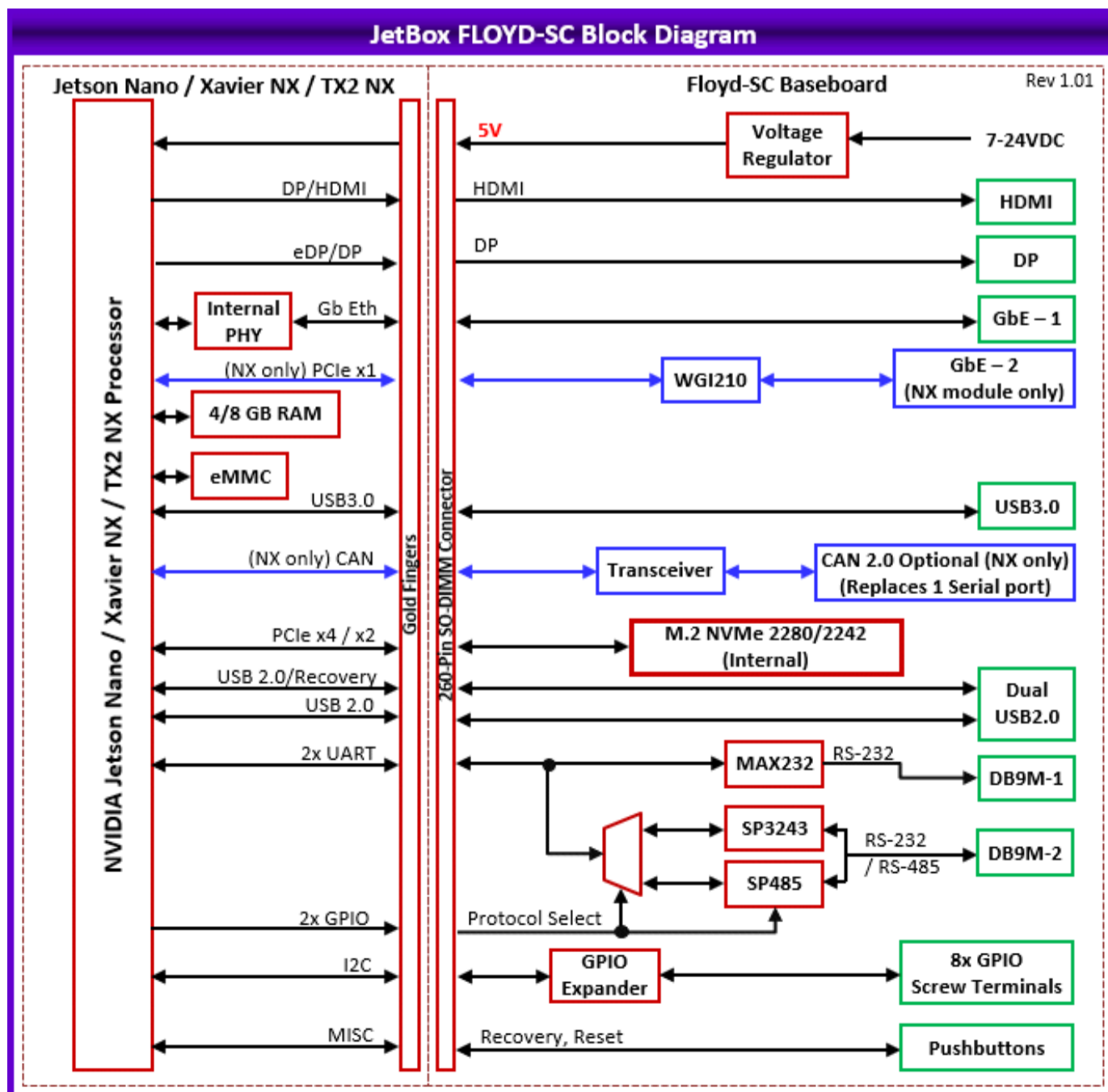
DIAMOND SYSTEMS

NVIDIA.

FEATURES

Based on Floyd SC carrier board

Choice of Nano, NX, or TX2 NX module

Single/Dual gigabit Ethernet (depending on Jetson module)

HDMI + DisplayPort

1 USB 3.0 + 2 USB 2.0 ports

2 serial ports: 1 RS-232 + 1 RS-232/485

8 GPIO lines with screw terminal connection

1 CAN port optional (replaces 1 serial port)

7-24VDC input voltage

JetPack-based Linux OS preprogrammed, ready to run

Supports -25 to +80C operation (full range of Jetson modules)

124x99x56mm / 4.9x3.9x2.2" WxDxH

Embedded Linux OS based on Nvidia JetPack

◆ Compact NVIDIA Jetson Nano / NX / TX2 NX AI-at-the-edge computer system

Jetbox-FloydSC provides a complete deployable solution for AI at the edge utilizing the Nvidia XN / TX2 NX / Nano compact GPU modules. JetBox-Floyd SC includes the Floyd SC carrier board and the selected Jetson module with Linux OS loaded, integrated into a compact steel + aluminum enclosure ready for use. The integrated heat sink cover provides cooling – no fan is required. An internal M.2 socket supports up to 2TB additional storage beyond the flash included on the Jetson module. Shelf and DIN rail mounting are supported. A 12V AC adapter is included with the system.

With the NX module installed, one CAN port can be made available with an internal cable that replaces one of the serial ports on the front panel.

◆ Block Diagram

JetBox Floyd-SC is available with the Floyd SC BB02 baseboard. This supports all the available features of all Nano-size modules. The features available vary according to the installed module.

JetBox FLOYD-SC Block Diagram

◆ General Purpose Digital I/O

Jetbox Floyd-SC provide an 11-position screw terminal block for GPIO features. The terminal block supports 8 GPIO, 2 ground connections, and 1 power connection, which also selects the GPIO voltage levels. Power is selectable for 3.3V / 5V using a jumper on the main board (requires removing the top cover).

◆ Base Unit for DIY Users

A "base unit" system kit is available for customers who want to buy and install their own Jetson modules. The kit includes the entire system except for the module. System assembly and operating system programming are required to utilize this base unit. See part numbers in ordering guide.

◆ Ordering Information

◆ Models and Accessories

Jetbox Floyd-SC

available models:

JB-FLDSC-NAO-02	JetBox-FloydSC with Nano module, FLDSC-BB02 carrier board	Available
JB-FLDSC-TNX-02	JetBox-FloydSC with TX2 NX module, FLDSC-BB02 carrier board	Available
JB-FLDSC-XNX-02	JetBox-FloydSC with Xavier NX module, FLDSC-BB02 carrier board	Available
JB-FLDSC-BASE-01	JetBox Floyd-SC system kit with FLDSC-BB01 carrier board; includes all components except for Jetson module	Available
JB-FLDSC-BASE-02	JetBox Floyd-SC system kit with FLDSC-BB02 carrier board; includes all components except for Jetson module	Available

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