

FLOYD™ Carrier Board for NVIDIA® Jetson™ Nano and Xavier NX Modules

Sunnyvale, California, USA — February 25, 2020

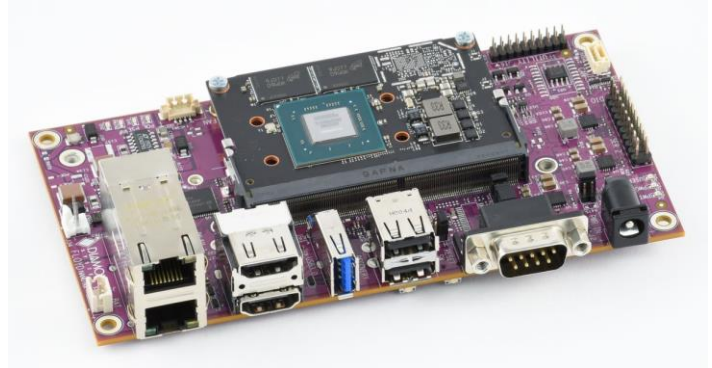
Diamond Systems, a global provider for rugged, I/O-rich embedded computing solutions, has introduced the **FLOYD** carrier board, a new member to its family of solutions for supporting AI-at-the-edge high performance computing solutions. With the introduction of FLOYD, Diamond now supports all members of the Nvidia Jetson embedded GPU module family.

Measuring 5.8" x 3.0" (147 x 76mm), FLOYD converts the Nano and NX modules into complete embedded systems by providing interface circuitry, I/O connectors for all module features, camera interfaces, power supply, and additional I/O. The multiple camera inputs provide increased versatility for imaging applications and include two PoE+ (30 watts max) Gigabit Ethernet ports, 3 MIPI/CSI 2/4-lane connectors, and one USB 3.0 port.

FLOYD allows developers to take immediate advantage of the new Xavier NX with its dramatically higher performance 384-core GPU as well as develop solutions using the more cost-conscious Nano module with 128 cores. Floyd is designed and built for reliable performance and extended operating temperature of -40°C/85°C to meet the full capabilities of both Jetson modules.

To speed up application development, Diamond Systems provides customized Linux embedded OS for both Nano and NX modules based on the JetPack BSPs provided by Nvidia.

A complete system-level solution is available as JETBOX-Floyd. Both NX and Nano configurations are supported. JETBOX-Floyd houses the Floyd + selected Nvidia module in a steel + aluminum enclosure measuring 6.7 x 3.5 x 2.2" (171 x 89 x 57mm), providing access to all I/O features. The enclosure is compatible with standard DIN rail mounting.



FLOYD provides versatile camera inputs and rich I/O features in support of the Jetson Nano and Xavier NX modules.



JETBOX-Floyd offers a compact AI-at-the-edge computing solution based on Jetson Nano and Xavier NX modules.

Media Resources

FLOYD carrier board web page: <http://www.diamondsystems.com/products/floyd>

JETBOX-Floyd system web page: <http://www.diamondsystems.com/products/jetboxfloyd>

Availability

FLOYD is available now as a standalone carrier, a ready-to-run assembly with Jetson module installed and programmed, and as a complete “box PC” system:

FLD-BB01	Floyd carrier board (Nvidia module purchased separately)
FLD-NAO-FS-02	Floyd carrier board with Nano module installed and programmed, fan sink
FLD-XNX-FS-01	Floyd carrier board with NX module installed and programmed, fan sink
JB-FLOYD-NAO-02	Box computer with Nano module
JB-FLOYD-XNX-01	Box computer with Xavier NX module

For more information, please visit the FLOYD webpage above or contact the Diamond’s sales team: sales@diamondsystems.com

About Diamond Systems

Diamond provides highly integrated solutions such as carrier boards and systems for NVIDIA Jetson TX2/TX2i and AGX Xavier modules; single-board computers (SBCs); ultra-compact and 10G Ethernet switches, an extensive line of expansion modules for analog and digital I/O, solid-state disk, and power supply functions.

Diamond Systems is an innovator of rugged, I/O-rich board and system-level solutions for embedded computing in a broad range of markets worldwide. With over 30 years of embedded systems and board-level expertise, Diamond’s unique custom solutions are engineered for harsh environments where there is a need for compact, often long-life, and I/O-centric computing but where traditional commercial or industrial solutions cannot survive. Diamond’s products are designed to operate reliably over wide operating temperature ranges, such as -40°C to $+85^{\circ}\text{C}$, and at high levels of shock and vibration. Additionally, the company offers comprehensive hardware, software, and system integration services. For further information, please visit www.diamondsystems.com.

Diamond Systems will be exhibiting at Embedded World February 25–27, 2020. Visit us in Hall 2, booth 2-350 to see FLOYD along with Diamond’s other new embedded computing solutions.

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