Gumstix Edge AI Series
for NVIDIA Jetson Nano

TensorFlow pre-integration for machine learning and neural networking development.

Fremont, CA. March 31, 2020— Gumstix®, Inc., a leader in computing hardware for intelligent embedded applications, announced the release of four Edge AI devices designed to meet the demands of machine-learning applications moving massive data from the networks edge.

Powered by the NVIDIA Jetson Nano running a Quad-core ARM A57, the Gumstix AI development boards feature built in TensorFlow support to make edge AI prototyping more accessible for software engineers and provide a rapid turnkey solution for deployment.

Gumstix AI devices streamline the software-hardware integration and provide users the following benefits:
- Easy to customize modular designs available in the Geppetto app.
- GPU enabled TensorFlow support.
- Customizable OS (Yocto) for rapid and simple deployment.

"Ever since launching our first products in 2003- running a full Linux implementation in the size of a stick of gum - we have sought to make the world of tiny devices more and more powerful." says W.Gordon Kruberg, M.D., Head of Modular Hardware, Altium, Inc., "This new AI series of expansion boards, featuring the SnapShot, and our support of the NVIDIA Nano, grows from our belief in the power and primacy of neural-network algorithms."

The Gumstix Snapshot with up to 16 video streams along with the 3 other new boards, are now available for purchase at www.gumstix.com. In addition, users are able to also easily customize the form, fit and function of these modular designs online and receive a customized board in 15 days.

[Gumstix Jetson Nano Snapshot Board](#)   **$250.00 MSRP**

The Gumstix Nano Snapshot Board is the ultimate edge AI video capture device, powered by the NVIDIA Jetson Nano running a Quad-core ARM A57. Control up to 16 1080p 30fps video streams into a single board. Four Jetson Nano Boards are interconnected via a Gigabit switch to allow for quick and easy communication. NVIDIA Jetson Nano Boards and the switch can be remotely monitored and reset using the on-board ESP32 module. Each Jetson Nano supports up to four Raspberry Pi Camera Modules V2. This multi-camera Nano Snapshot Board is a great way to scale your video edge AI project.

* 4 x Jetson Nano Vertical Connectors
* 16 x 15-pin Vertical Camera Connectors (Compatible with Raspberry Pi Camera Module V2)
* RJ45 Jack with Gigabit Magnetics
* Micro B USB Plug for flashing and another for serial debugging
* ESP32 for Jetson Nano, power and switch management
* Redundant WiFi backup connection for Ethernet failure
* Serial debugging available via USB connector or via network management

[Gumstix Jetson Nano Development Board](#)   **$170.00 MSRP**

The Gumstix Jetson Nano Development Board is the perfect starting point for edge AI prototypes. Powered by the NVIDIA Jetson Nano running a Quad-core ARM A57, this board brings out the most frequently used interfaces, such as:

* HDMI
* USB 3.0
* 2 x Raspberry Pi Vertical Camera Connector
* M.2 (Key E) Wireless card interface
* Ethernet Connector
* USB Micro-B Jack for flashing
* USB Micro-B Jack for console debugging
* Raspberry Pi Compatible 40-pin header

[Gumstix Jetson Nano MegaDrive](#)   **$100.00**

The MegaDrive is a powerhouse of support for wireless edge AI projects, complete with expandable storage. The Gumstix Jetson Nano MegaDrive, powered by the NVIDIA Jetson Nano running a Quad-core ARM A57, brings out most of the frequently used interfaces, such as:

* USB 3.0
* 2 x Raspberry Pi Vertical Camera Connector
* M.2 (Key M) SSD card interface
* 802.11 ac WiFi
* USB Micro-B

Gumstix Jetson Nano FastFlash   **$40.00**

Gumstix Jetson Nano FastFlash is a compact, cost-effective expansion board designed to quickly initialize or overwrite the Jetson Nano eMMC storage with a new disk image or mount the file system to your PC.

Note: The Gumstix Jetson Nano products are designed around version B01 of the NVIDIA Jetson Nano module. Many of the NVIDIA Jetson Nano modules included in the NVIDIA Jetson Nano Developer Kit are earlier versions (i.e. A02) of the module and are therefore incompatible with Gumstix products. To ensure proper functionality, please source versions B01 or newer of the NVIDIA Jetson Nano module.

###

About Gumstix, Inc.

Gumstix manufactures computing hardware applications that can be customized and manufactured for embedded devices and systems. Designed to meet the demands of next generation IoT and Edge computing machine-learning applications, Gumstix modular hardware is developed to connect to multiple networking capabilities, sensors, and components that are required for machine learning and neural networking. For engineers developing devices from the iphone to Mars satellites, Gumstix devices have been used by thousands of hardware engineers, software designers, and educators since 2004 in over 45 countries. Gumstix is a wholly owned subsidiary of Altium.