



Gumstix Designs Custom AeroCore 2 Expansion Board for the DragonBoard 410C

Take Your Project to the Skies with this MAV control board featuring a Cortex-M4 and NuttX RTOS



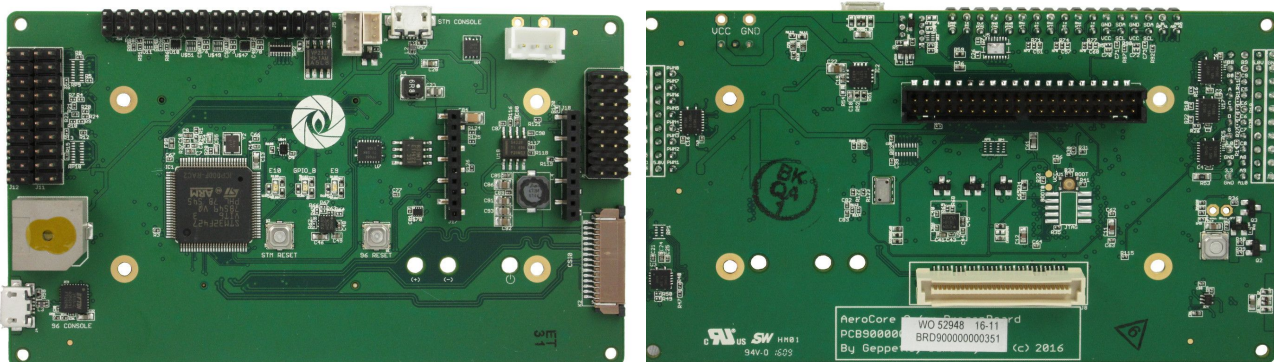
Arrow Dragon Board 410C (top) and Gumstix AeroCore 2 DragonBoard 410C Expansion Board (bottom)

REDWOOD CITY, Calif. June 8, 2016 — [Gumstix® Inc.](#) the leader in design-to-order embedded systems, today announced the release of their custom [AeroCore 2 expansion board for the DragonBoard 410C](#) priced at \$149, this new expansion board provides a versatile platform for designing and building of MAVs and UAVs. Designed in the Geppetto® Design-to-Order (D2O) platform by Gumstix engineers, the AeroCore 2 expansion board for Dragonboard 410C is stacked with features, like a Nimbelinek LTE model socket capable of transmitting data to laptop, a 15-pin CSI2 camera connector, eight PWMs, a 16-pin GPIO header, an SPI header, GPS support, a Spektrum DSM-2 remote connector and the powerful ST Micro Cortex-M4 microprocessor supporting NuttX RTOS.



The Gumstix AeroCore 2 expansion board for the DragonBoard 410C is a more technologically advanced version of the current AeroCore 2 for Gumstix Overo COMs. It adds the superior connectivity of NimbeLink LTE modems and hardware support for high-quality imaging to the already exceptional AeroCore 2 design. The CSI2 serial camera connector provides the hardware needed to connect HD cameras, such as the Raspberry Pi Camera to this MAV controller.

With an integrated Cortex-M4 microprocessor, NuttX RTOS and GPS support, this MAV expansion board is an ideal embedded platform for the Gumstix Pre-Go series of u-blox NEO 7P GPS/GLONASS receivers, purchased separately, like the [Gumstix Pre-Go Precise Point Positioning GPS receiver](#) priced at \$79.



Top and bottom perspectives of the AeroCore 2 expansion board for DragonBoard 410C designed in Geppetto D2O.



Arrow Electronics, Inc., a Fortune 500 company founded in 1935, is a global provider of products, services and solutions to industrial and commercial users of embedded computers and enterprise computing solutions. Arrow currently offers the [DragonBoard 410C](#) and the [AeroCore 2 for DragonBoard 410C](#).

“The Gumstix AeroCore 2 for DragonBoard 410C is an excellent addition to the Arrow portfolio given the



growing demand for connected devices and customized Internet of Things (IoT) solutions,” said Aiden Mitchell, vice president of global IoT at Arrow. “This addition of the AeroCore 2 for DragonBoard 410C Expansion Board reinforces our commitment to guiding innovation forward for the growing maker community.”

The DragonBoard computer-on-module features a Qualcomm Snapdragon 400 series processor with a Quad-core ARM Cortex A53 (max 1.2 GHz per core) supporting Android and Linux, WiFi/Bluetooth, 1GB LPDDR3 533MHz, 8GB eMMC 4 and a Micro-SD card slot. The DragonBoard 410C also includes the Qualcomm Adreno 306 GPU with support for advanced APIs (including OpenGL ES 3.0, OpenCL and DirectX) and 1080p@30fps HD video playback/capture.

The 11.5 x 6.65 cm AeroCore 2 expansion board for the DragonBoard 410C features:

- ARM ST Micro Cortex-M4 processor (168MHz)
- Spektrum DSM-2 Remote Connector
- 5-pin GPS header
- Two I2C headers
- Three UART headers
- SPI header
- Octal PWM header
- 15-pin CSI2 camera connector *
- Connector for NimbeLink LTE modems
- USB Micro-B console connection to the ST Micro Cortex-M4
- USB Micro-B console connection to the DragonBoard 410C
- 128 KB non-volatile FRAM memory module connected to the ST Micro Cortex-M4
- A 9-axis internal motion sensor and altimeter
- Buzzer, tactile switches and red/blue/yellow LEDs
- USB-UART bridge

**Pending manufacturer software support*

The AeroCore 2 for DragonBoard 410C can be purchased directly at gumstix.com or customers can use the [Geppetto® D2O](#) online design tools to clone and drop the AeroCore 2 expansion board for the DragonBoard 410C into the Geppetto® D2O workspace to jump start their own custom design. Users can choose from a library of hundreds of different modules in Geppetto® to create their unique AeroCore 2 DragonBoard 410C expansion board.

“We are excited to offer a custom AeroCore 2 expansion board for the DragonBoard market,” says Gordon Kruberg, Gumstix CEO, “Arrow customers can now utilize the power of the AeroCore 2 or create their own customized expansion board in Geppetto, creating a faster path to market as we build the “things” of the internet together.”



Once customers are satisfied with their expansion board designs in Geppetto® D2O, engineers at Gumstix will test and validate the board design, manufacture and ship the production ready board 15 days from order; reducing both the production and development time for the customer. All Gumstix products and quantity discounts are available at www.gumstix.com

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About Gumstix, Inc.

As a global leader in design-to-order hardware and manufacturing solutions, Gumstix® gives its customers the power to solve their electronic design challenges with Geppetto® D2O -- the online design-to-order system-- and a broad portfolio of small computers and embedded boards. In addition to engineers and industrial designers, Gumstix helps students, educators, and makers unlock their creative ideas to bring them to market. Since pioneering the concept of an extremely small computer-on-module (COM) with a full implementation of Linux in 2003, the company has grown to support over 20,000 diverse customers. Our systems have launched some of the world's coolest products - from phones to drones - on commercial, university, and hobbyist workbenches in over 45 countries. For more information, visit www.gumstix.com

About Arrow Electronics

[Arrow Electronics](http://www.arrow.com) is a global provider of products, services and solutions to industrial and commercial users of electronic components and enterprise computing solutions. Arrow serves as a supply channel partner for more than 100,000 original equipment manufacturers, contract manufacturers and commercial customers through a global network of more than 460 locations serving over 85 countries.

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