

Devices: Raspberry Pi, WinSystems and Estone

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- [How to Fight Coronavirus With Your Raspberry Pi](#) [4]

With the coronavirus pandemic raging, many PC users have dedicated CPU cycles to medical research using Folding@Home (we're even doing a fold-off competition with AnandTech). Though Folding@Home does not run on a Raspberry Pi, you can participate in Rosetta@Home, a similar project that's also researching COVID-19, by installing a free Linux app called BOINC.

BOINC has been around for a long time and supports many different research projects, including Asteroids@Home, which does space research, and some of these projects will work on Raspbian, Raspberry Pi's official OS. However, the addition of Rosetta@Home is new, and if you want to join that project, you need to run BOINC on a 64-bit operating system (OS), such as Ubuntu (64-bit). Rosetta@Home will not give you any workloads if you try it in Raspbian.

Here's how to use your Raspberry Pi to fight coronavirus with BOINC and Rosetta@Home.

- [Compact Apollo Lake computer runs Linux](#) [5]

WinSystems' fanless, Linux-ready SYS-ITX-N-3900 computer has an Apollo Lake SoC, -20 to 60°C support, wide-range power, M.2 and mini-PCIe expansion, and a compact 150 x 150 x 50mm footprint.

A year and a half after the first Intel Gemini Lake based embedded computers arrived, we have seen only a few models based on this latest Atom family of chips. Gemini Lake continues to be in short supply, as it has been since its arrival.

Yet, the industry keeps churning out computers based on the similarly 14nm fabricated Apollo Lake platform. The latest is WinSystems' fanless SYS-ITX-N-3900, which runs Linux or Windows 10 IoT on dual- or quad-core Apollo Lake Atom SoCs.

- [i.MX8M Mini Pico-ITX board has a DSP for voice control plus optional AI](#)^[6]

Estone's EMB-2237-AI Pico-ITX SBC integrates a SOM-2237 module that runs Linux on an i.MX8M Mini and adds a DSP for audio. The carrier adds LAN with PoE, MIPI-DSI and CSI, mics and speakers, and an M.2 slot with Edge TPU AI support.

Estone Technology's EMB-2237-AI is the first SBC we've seen to combine the 100 x 72mm Pico-ITX form-factor with an NXP i.MX8M Mini SoC. Other Mini-based SBCs include Seco's SBC-C61, Boardcon's sandwich-style EM-IMX8M-MINI, and Garz & Fricke's recent Tanaro, among others.

[GNU Linux Hardware](#)

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