

Mini PC Show #120

Raspberry Pi Pico The new flexible microcontroller board from Raspberry Pi. Welcome to your Raspberry Pi Pico, a microcontroller board built on silicon designed here at Raspberry Pi.

<https://www.raspberrypi.org/documentation/pico/getting-started/>

Raspberry Pi Pico: Pimoroni announces multiple devices based on the Pico's new RP2040 microcontroller, including a handheld games console

It has only been a day since the Raspberry Pi Foundation unveiled the Raspberry Pi Pico, which features a new RP2040 microcontroller chip. However, Pimoroni has already announced based on the RP2040 or accessories that are compatible with the Raspberry Pi Pico.

<https://www.notebookcheck.net/Raspberry-Pi-Pico-Pimoroni-announces-multiple-devices-based-on-the-Pico-s-new-RP2040-microcontroller-including-a-handheld-games-console.516414.0.html>

Heads up: Microsoft repo secretly installed on all Raspberry Pi's Linux OS

Raspberry Pi is a little useful computer for learning programming and building projects. It comes with Debian Linux based modified operating system called Raspbian. It is the most wildly installed OS on RPi.

<https://www.cyberciti.biz/linux-news/heads-up-microsoft-repo-secretly-installed-on-all-raspberry-pis-linux-os/>

Raspberry Pi Officially Embraces Visual Studio Code, Telemetry and All

The Raspberry Pi Foundation has officially embraced Microsoft's open source Visual Studio Code editor, known for its cross-platform capabilities enhanced by a vast selection of extensions.

<https://visualstudiomagazine.com/articles/2021/02/16/vs-code-raspberry-pi.aspx>

PineTalk Podcast

<https://www.pine64.org/feed/mp3>

Nextcloud faster than ever! Introducing Files High Performance Back-end

<https://nextcloud.com/blog/nextcloud-faster-than-ever-introducing-files-high-performance-back-end/>

Every second 842 Arm chips were built at the end of 2020

The big picture: As part of their last quarterly report, Arm has revealed that the popularity of their processor designs has continued to increase exponentially. Manufacturing partners have recorded shipments of 6.

<https://www.techspot.com/news/88625-every-second-842-arm-chips-built-end-2020.html>

BeagleV: A powerful RISC-V single-board computer that runs Linux from US\$119
There are many single-board computers about, but few are powerful and have RISC-V processors. The BeagleV is an example of a board that fits that criteria though, thanks to its SiFive U74 processor. The BeagleV is comparatively affordable, too. The SiFive U74 has two cores clocked at 1.

<https://www.notebookcheck.net/BeagleV-A-powerful-RISC-V-single-board-computer-that-runs-Linux-from-US-119.516265.0.html>

Android 10 ported to RISC-V board powered by Alibaba T-Head XuanTie C910 Processor
RISC-V has made a lot of progress in just a few years, but for anything requiring 3D graphics acceleration, it's not quite there yet. and we only expect RISC-V SoC with Imagination Technologies GPU to come out later this year on hardware such as BeagleV SBC.

<https://www.cnx-software.com/2021/01/22/android-10-ported-to-risc-v-board-powered-by-alibaba-t-head-xuantie-c910-soc/>

Station M1 - my fastest ARM SBC

Let's install Armbian on it, and put it through performance tests. The SBC came with a power adapter, so I plugged it in, connected a Full-HD monitor to the HDMI port, and...

<https://www.thanassis.space/stationm1.html>

New RISC-V hardware designs from 5G startup EdgeQ

Today, 5G cellular startup EdgeQ is announcing the addition of two new members to its advisory board—former Qualcomm CEO Paul Jacobs, and former Qualcomm CTO Matt Grob.

<https://arstechnica.com/gadgets/2021/01/new-risc-v-hardware-designs-from-5g-startup-edgeq/>

RV64X: A Free, Open Source GPU for RISC-V

A group of enthusiasts are proposing a new set of graphics instructions designed for 3D graphics and media processing. These new instructions are built on the RISC-V base vector instruction set.

<https://www.eetimes.com/rv64x-a-free-open-source-gpu-for-risc-v/>

The end of Community Editions

Today marks the end of the PinePhone Community Edition scheme. On behalf of myself, the Pine Store crew and the entire PINE64 community I'd like to thank the UBports Foundation, the postmarketOS project, Manjaro Linux, KDE e.

<https://www.pine64.org/2021/02/02/the-end-of-community-editions/>

Western Digital D50 1 TB NVMe Game Dock is built like a tank, but its ports and Dashboard software could use some updating

Thunderbolt is becoming increasingly common on laptops these days to offer both high bandwidth transfer rates and charging capabilities all through a single port.

<https://www.notebookcheck.net/Western-Digital-D50-1-TB-NVMe-Game-Dock-is-built-like-a-tank-but-its-ports-and-Dashboard-software-could-use-some-updating.519582.0.html>

February Update: Show and Tell

Welcome to this month's community update. As many of you know, we have now entered the Chinese New Year (CNY) period, which means that all manufacturing and related business activities have ground to a halt.

<https://www.pine64.org/2021/02/15/february-update-show-and-tell/>

Cherry Pi PC SBC is a clone Orange Pi PC selling for \$16.5 and up
Orange Pi PC is an Allwinner H3 SBC that was launched in 2015 for as little as \$15 plus shipping (now \$17.42 with 1 GB RAM), and made by a company called Shenzhen Xunlong Software. The next year, the company launched Orange Pi PC Plus with 8GB eMMC flash and WiFi connectivity for \$20 (now \$25.54).

<https://www.cnx-software.com/?p=85545>

VMware customer production use cases for Intel NUC

The Intel NUC also known as the Next Unit of Computing is a very popular platform for running VMware based homelabs. I have been working with the Intel NUCs since 2016 with their 6th Generation model when I decided to rebuild my personal home lab.

<https://www.virtuallyghetto.com/2021/02/vmware-customer-production-use-cases-for-intel-nuc.html>

Geniatech XPI-3288 Raspberry Pi lookalike features Rockchip RK3288 SoC

Geniatech XPI is a family of single board computers following Raspberry Pi 3 form factor. We first covered XPI-S905X SBC in 2018, which was followed by XPI 3128 board last year.

<https://www.cnx-software.com/2021/03/03/geniatech-xpi-3288-raspberry-pi-lookalike-features-rockchip-rk3288-soc/>

Raspberry Pi: The pocket-money priced \$4 Pico nears one million orders in just two months
Raspberry Pi's chief operating officer and hardware lead James Adams says the company, through its resellers, has almost sold one million units of the Pico since January 21.

<https://www.zdnet.com/article/raspberry-pi-the-pocket-money-priced-4-pico-nears-one-million-orders-in-just-two-months/>