

# Devices/Embedded and Development

By *Roy Schestowitz*

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- [Backplane Systems Technology Presents Neosys's IGT-22-DEV Industrial-grade IoT gateway Development Kit](#)[3]

IGT-22-DEV provides a ready-for-use software environment featuring Debian Buster, Docker CE, Node-RED, Python3, GCC, and IoT platform agent configured with sensors and cloud connection. With minimum provisioning on the IoT platform, a web-based dashboard becomes available and can be accessed on a desktop computer, tablet, or mobile phone, wherever you may be. IGT series supports various programming languages, such as Python and GCC. On top of that, IGT-22-DEV has Node-RED pre-installed for intuitive graphical and local logic control of the built-in DO, allowing prompt responses. Unlike the standard IGT-22, the USB port of IGT-22-DEV is specifically set to OTG mode to provide serial and LAN functions over USB, so you can choose to connect to IGT-22-DEV with a USB cable.

- [Arm PSA Level 3 certified Sub-GHz wireless SoCs support Amazon Sidewalk, mioty, Wireless M-Bus, Z-Wave?](#)[4]

Silicon Labs has announced two new sub-GHz wireless SoCs with EFR32FG23 (FG23) and EFR32ZG23 (ZG23) devices adding to the company's Gecko Series 2 Cortex-M33 platform.

- [Top 10 IoT Boards for Development and Prototyping in 2021](#) [5]

This is one of the popular IoT Boards based on IoT Technology. The newest version of the

low-cost Raspberry Pi computer is the all-new Raspberry Pi 4 Model B. This electronic board, which is the size of a credit card, has several enhancements. For starters, the power connector is USB-C, which may accommodate an additional 500mA of current, providing 1.2A for downstream USB devices. A pair of type-D (micro) HDMI connections have been installed instead of the type-A (full-size) HDMI connectors, allowing for dual display output within the existing board footprint. In Raspberry Pi 4, the Gigabit Ethernet magjack is now on the top right of the board, rather than the bottom right. It has a new operating system based on Debian 10 Buster, which will be released soon. The user interface has been modified, and new programs such as the Chromium 74 web browser have been included. Additionally, the Mesa ?V3D? driver has replaced the legacy graphics driver stack used on previous models, allowing for the removal of nearly half of the platform?s closed-source code, as well as the ability to run 3D applications in a window under X, OpenGL-accelerated web browsing, and desktop composition.

[...]

The NanoPi NEO Plus2 is a FriendlyElec-developed all-winner-based ARM board that is less than half the size of the Raspberry Pi. But that doesn?t make it any less capable in terms of storage and performance. Its operating system is Ubuntu Core 16.04, a strong Linux distro. It has a 64-bit quad-core Allwinner A53 SoC with Hexa-core Mali450 GPU, 1GB DDR3 RAM, 8GB eMMC storage, Wi-Fi, 4.0 dual-mode Bluetooth, and 1 MicroSD slot, 10/100/1000M Ethernet based on RTL8211E-VB-CG. In comparison to the Raspberry Pi, the NanoPi NEO Plus2 has gigabit Ethernet, 8 gigabytes of eMMC storage, and two USB ports. It is powered by a micro-USB port and, despite its little size, offers expandable memory owing to a microSD card. It also has additional benefits, such as low cost, fast speed, and high-performance computation.

● [Break point: Prometheus, JFrog, GDB, Boundary, Serverless Framework, Eclipse, Delphi, Kubermatic, and DataSpell](#)[6]

The team behind monitoring system Prometheus has pushed version 2.30 into the wild, and with it some improvements to the scrape functionality. Amongst other things users can now adjust the scrape timestamp tolerance to save TSDB disk space in cases where a higher ms difference isn?t a problem. They also have access to an experimental way of configuring a scrape interval and timeout through relabeling, and new metrics behind the extra-scrape-metrics flag that expose the per-target scrape sample\_limit value and scrape\_timeout\_seconds.

## [Development Hardware](#)

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Source URL: <http://www.tuxmachines.org/node/155839>

### Links:

[1] <http://www.tuxmachines.org/taxonomy/term/145>

[2] <http://www.tuxmachines.org/taxonomy/term/39>

[3] <https://www.ferret.com.au/industrial-computers-and-software/backplane-systems-technology-presents-neousyss-igt-22-dev-industrial-grade-iot-gateway-development-kit/>

[4] <https://www.cnx-software.com/2021/09/20/arm-psa-level-3-certified-sub-ghz-wireless-socs-support-amazon-sidewalk-mioty-wireless-m-bus-z-wave/>

[5] <https://www.analyticsinsight.net/top-10-iot-boards-for-development-and-prototyping-in-2021/>

[6] <https://devclass.com/2021/09/17/bp-170221/>