REVOLUTION PI

Release Notes
Bullseye 02/2024

02/27/2024

REVOLUTION PI

a **KUNBUS** brand

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1 Release Notes Bullseye 02/2024

Our image is based on Raspberry Pi OS 2023-05-03, which is based on Debian Bullseye. Details about the changes to Raspberry Pi OS can be found in these release notes:

https://downloads.raspberrypi.org/raspios_armhf/release_notes.txt
for Bullseye armhf

https://downloads.raspberrypi.org/raspios_arm64/release_notes.txt
for Bullseye arm64

We have made some changes to Raspberry Pi OS: Among other things, we removed unnecessary packages, added APT repositories, and installed packages from KUNBUS. Details can be found here:

https://gitlab.com/revolutionpi/imagebakery

The image contains all package updates released by the Raspberry Pi Foundation and the Revolution Pi project until mid-February 2024. It uses kernel 6.1.46 with the RT13 patch version 8.

Bugfixes

- Kernel (incl. PiControl):
  - After initiating a firmware update on up-to-date modules, no error is output.
- Webstatus:
  - The maximum speed of the CPU clock configuration is correctly displayed as "MAX".
- revpi-cert-wizard:
  - Invalid certificates no longer prevent revpi-cert-wizard from creating new certificates.
- piCtory:
  - The "projects" folder can no longer be accessed without prior authorization.
  - Only files with the extensions "json", "rsc", "global", "txt", and "seq" can be saved.
  - If the "config.rsc" file is missing, no error is thrown, but a new project is created.
  - Project files are deleted from the file system when deleted in piCtory.
  - Settings in piCtory are displayed correctly even with less space.
  - The device tree is still loaded even if the "catalog-custom.json" contains an error.
  - Settings are applied immediately after saving.
  - The PWM frequency of MIOs is restricted to allowed values.
  - Issues with the arrangement of placeholder bytes in the RAP file from the RevPi MIO have been resolved.

- The voltage of the analog outputs on the Compact and Flat is restricted to a range of valid values.
- The text area in the export dialog fills the entire window.
- Some letters in help texts are displayed correctly again.

RevPiModIO2:

- Previously missing product types are available.
- A warning is issued if IOs overlap.
- Devices with offsets incorrectly configured in the "config.rsc" are ignored.
- The Context Manager no longer writes to the process image if setting "monitoring=True".
- The Context Manager can be run more than once.

Package versions

A detailed list of all changes can be found in the changelog of the respective package (e.g.: /usr/share/doc/raspberrypikernel/changelog.Debian.gz).

- Kernel 9.20240205+1-6.1.46-1 (incl. PiControl):
  - Support for the new RO module

- Webstatus 2.4.5:
  - revpi-cert-wizard now gives more details if a certificate could not be read or a private key could not be written.
- piCtory 2.3.2:
  - New product images are used and displayed on a DIN rail.
  - Support for the new RO module.
  - The virtual device "RevPi7" is removed from the catalog. Existing configurations are not affected by this change.
  - Customized action rules can be defined in the file "actionRules-custom.json". This prevents them from being overwritten when piCtory is updated.
- RevPiModIO2 2.7.1:
  - Support for the new RO module.
  - Removal of the obsolete "direct_output" parameter.
- piTest 1.5.0:
  - Support for the new RO module (incl. A command line flag to retrieve the counters of the RO).
- Current packages of Debian Bullseye (as of 2024-02-15)