

LINUTRONIX

Linutronix CI-RT System Requirements

Please make sure that your board meets the following requirements before shipping it to linutronix GmbH:

-  boots a functional Linux system (bootloader, kernel, user space / login prompt)
-  boots without human interactions if it is connected to the power supply (there is no need to push a power button first)
-  system boots from a physical boot medium (SD card, NAND flash, hard disk is okay, TFTP/NFS boot is a no go)
-  system has at least one real serial RS-232 UART (no FTDI/USB serial adapter)
-  Linux Kernel v4.1.x, v4.4.x, v4.9.x or 4.14.x with the following kernel functionalities are verified as working
 -  network
 -  boot medium access
 -  functional kexec *

Please make also sure, that

-  all needed hardware and software tools, cables and adapters that are needed to flash the boot medium are provided to linutronix.
-  all informations that are needed to replace the bootloader, kernel and user-space are available. (e.g. flash locations, bootloader sources and configs. If the system was build from source, provide the build-system (e.g. yocto) and the needed config files).
-  the linutronix root file system is used, if possible (see <https://ci-rt.linutronix.de/download/target-elbe-rfs/> for download)
-  if mainline Linux doesn't include the board support, a patch queue including the support applies to one of the specified kernel versions. Those patches must not touch the core code! Changes of board specific files like device tree or special drivers are fine.

For the rare case, that we have any problems integrating your system into the Test Environment, please provide us the contacts of a person that can give us technical informations about your system.

In case your system cannot fulfill a listed requirement please contact us before shipping!

Contact

Continuous Integration Team (mail: ci@linutronix.de, phone: +49 (0) 7556 25 999 0)

* For kexec functional verification please execute following commands:

```
# kexec -l /PATH/TO/IMAGE --initrd=/PATH/TO/INITRD --command-line="$( cat /proc/cmdline )"
# kexec -e
```

The first command loads the image with specified initrd and kernel command line. The second one boots the new kernel image. If the kernel and kexec are working properly the login prompt appears.

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