

DRM/KMS: Prerequisites

Hardware: Raspberry Pi 4

CGI Studio has been tested on **Raspberry Pi 4** Board.

CMake

In order to build Candra, the Meta build system CMake needs to be installed with at least version mentioned [here](#).

CMake is able to create the cross compilation make files that can be used with GCC (cross-compile) compiler.

Linux Toolchain (BSP)

- Create an SD card image with Raspberry Pi Imager - Raspberry Pi OS 64 Legacy, 64-bit (Debian Bullseye). Make sure to activate ssh access. This can be done with the Raspberry Pi Imager advanced options (strg+shift+x).
- Start the target
- On Target install the *-dev packages needed for your application plus

```
apt-get -yqq update && \  
    apt-get -yqq install libinput-dev libudev-dev libgles2-mesa-dev libdrm-dev libgbm-dev l
```

- If an image with display server is used please make sure to boot to cli.
- On host install a VM / WSL with Ubuntu 20.04 LTS (Focal Fossa)

```
apt-get -yqq update && \  
    apt-get -yqq install python3 build-essential crossbuild-essential-armhf crossbuild-esse
```

Install CMake

Copy /usr/lib and /usr/include from target SD Card to /opt/raspberry/bullseye/sysroot or /opt/raspberry/bullseye/sysroot64 if you use the 64 bit version.

- Compiler/s used for this release is GCC (GNU 9.4.0).

SD Card image, SDK and cross-compiler/s are not part of the delivery and have to be provided by the customer.

Hardware: iMX8QM

CGI Studio has been tested on Toradex Apalis **iMX8QM** Board.

CMake

In order to build Candra, the Meta build system CMake needs to be installed with at least version mentioned [here](#).

CMake is able to create the cross compilation make files that can be used with GCC (cross-compile) compiler.

Linux Toolchain (BSP)

- Yocto 6.6.0 built at Candra according to Toradex manuals.
- Image and SDK were prepared by the Candra.
- The GCC compiler is not part of the delivery. It is contained in the SDK that has to be provided by the customer.
- Compiler/s used for this release is GCC (GNU 11.4.0).

SD Card image, SDK and cross-compiler/s are not part of the delivery and have to be provided by the customer.

Hardware: R-Car E3

CGI Studio has been tested on **R-Car E3** System Evaluation Board.

CMake

In order to build Candra, the Meta build system CMake needs to be installed with at least version mentioned [here](#).

CMake is able to create the cross compilation make files that can be used with GCC (cross-compile) compiler.

Linux Toolchain (BSP)

- The SDK used for this release is based on Yocto Poky 2.4.3.
- SD card image and SDK were prepared by according to the RCar-E3 user guide.
- The GCC compiler is not part of the delivery. It is contained in the SDK that has to be provided by the customer.
Compiler/s used for this release is
- GCC (GNU 7.3.0)

SD Card image, SDK and cross-compiler/s are not part of the delivery and have to be provided by the customer.

Hardware: R-Car M3N

CGI Studio has been tested on **R-Car M3N** Customer Board.

CMake

In order to build Candra, the Meta build system CMake needs to be installed with at least version mentioned [here](#).

CMake is able to create the cross compilation make files that can be used with GCC (cross-compile) compiler.

Linux Toolchain (BSP)

- Yocto Poky 3.1.11 provided by the customer was used to test this release .
- Image and SDK were prepared by the customer.
- The GCC compiler is not part of the delivery. It is contained in the SDK that has to be provided by the customer.
- Compiler/s used for this release is GCC (GNU 9.3.0).

SD Card image, SDK and cross-compiler/s are not part of the delivery and have to be provided by the customer.

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