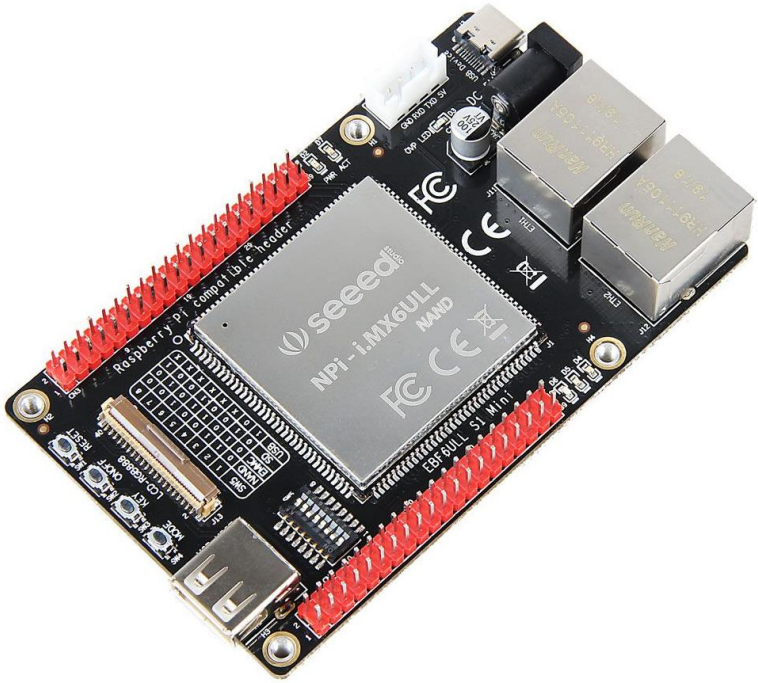


The new i.MX6ULL ARM Cortex A7 processor from NXP is a power-efficient high performance processor with a frequency up to 800MHz.

The NPi i.MX6ULL Dev Board is a Linux single board computer with low power consumption built around the powerful **i.MX6ULL**. It has 512MB DDR3L and 256MB NAND Flash on-board, as well as a multitude of interfaces and I/O connections.

Most of SeeedStudio Pi Hats work with NPi i.MX6ULL Dev Board (except ReSpeaker 6-Mic Circular Array Kit for Raspberry Pi and ReSpeaker 4-Mic Linear Array Kit for Raspberry Pi). You can also use the Grove base PI Hat to prototype whatever you like with Grove modules.

The whole board is made by a core module and a breakout board, and the components are all industrial grade.

The core module is composed of the i.MX6ULL core and 512MB DDR3L, 256MB NAND FLASH(or 8GB eMMC).

Depending on the Flash memory type, the NPi i.MX6ULL Dev Board is divided into two different versions:

- NPi i.MX6ULL Dev Board - 8G eMMC Version
- NPi i.MX6ULL Dev Board - 256MB NAND FLASH Version

The breakout board mainly includes various peripheral interfaces and input and output, IO expansion. Including but not limited to two 100M ethernet ports, one USB Host and one USB OTG port, one 24bit RGB LCD Interface, 2x 40 Pin I/O expansion headers.

Features

Core Module

- CPU: NXP MCIMX6Y2CVM08AB
- Frequency: up to 800Mhz
- DDR3L: onboard 512MB
- Flash: onboard 256MB NAND
- Operating temperature: -40℃ ~ 80℃

Attention

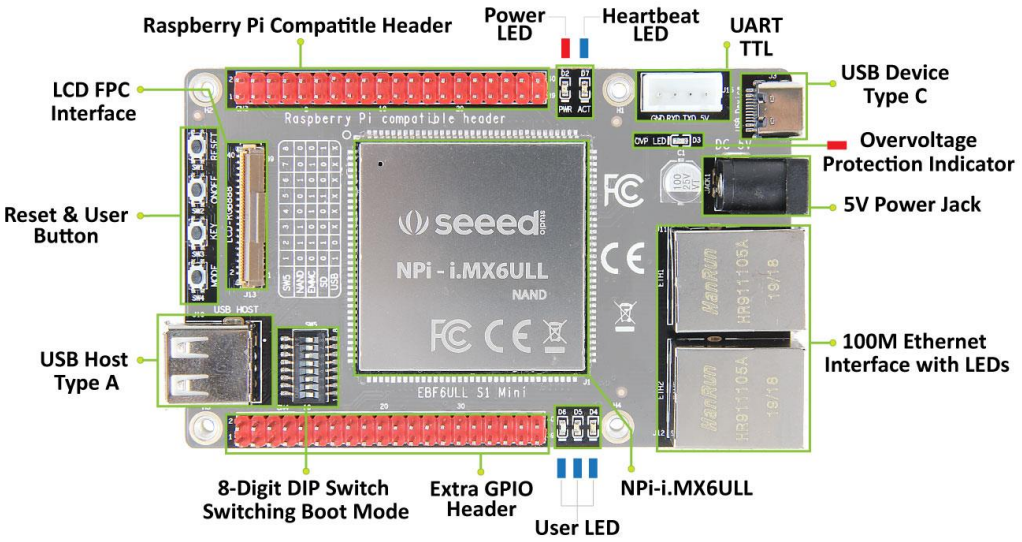
The operating temperature here refers specifically to the Core module, and the temperature range of the Breakout Board is narrower. The specific temperature range of the Breakout Board has not been tested.

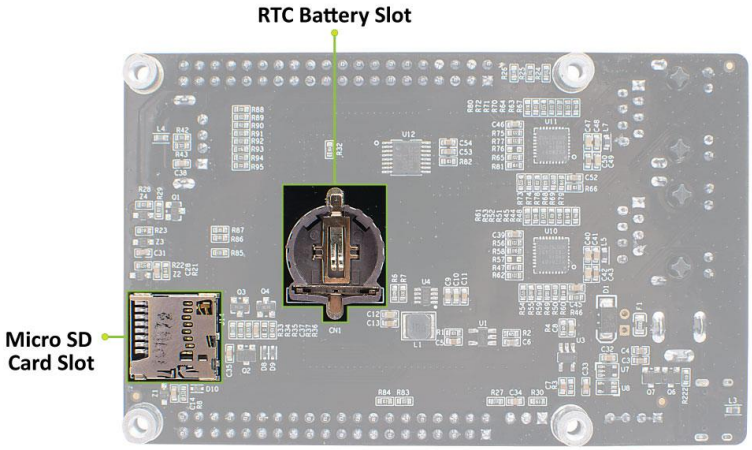
Breakout Board

- Ethernet: 2 x 100M ethernet port
- Power: 5V±2% DC jack
- Display: FPC LCD interface (including 24 bit RGB and I2C touch control)
- USB Host: 1 x USB Host Type A
- USB OTG: 1 x USB OTG Type C
- RTC: 1 x RTC battery slot
- SD Card: 1 x micro SD card slot
- User LED: 3 x LED
- Key: 4 x multifunction key
- Switch: 8-digit DIP switch, switching boot mode - USB/NAND/eMMC/SD
- IO: 2 x 40pin header

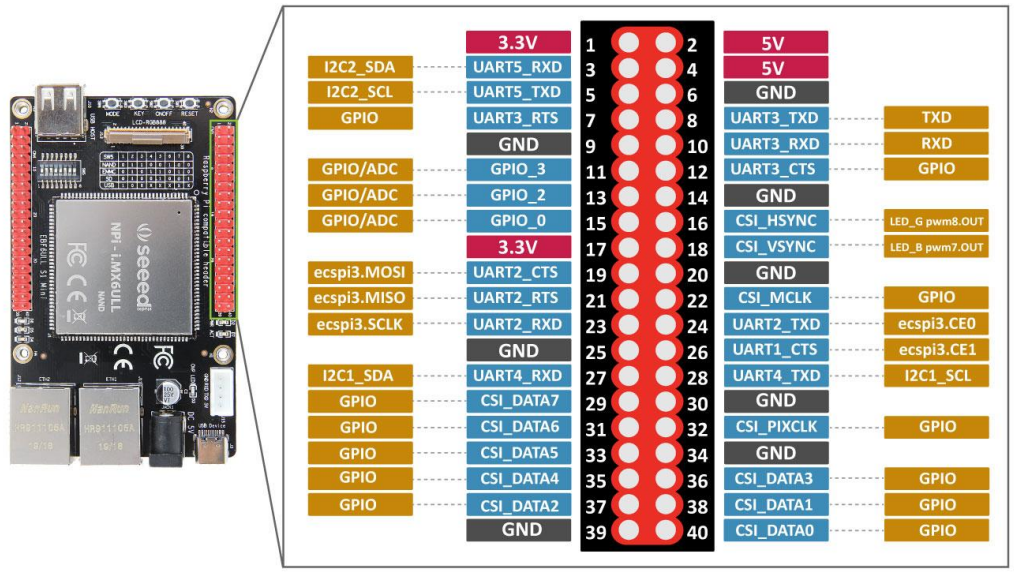
Hardware Overview

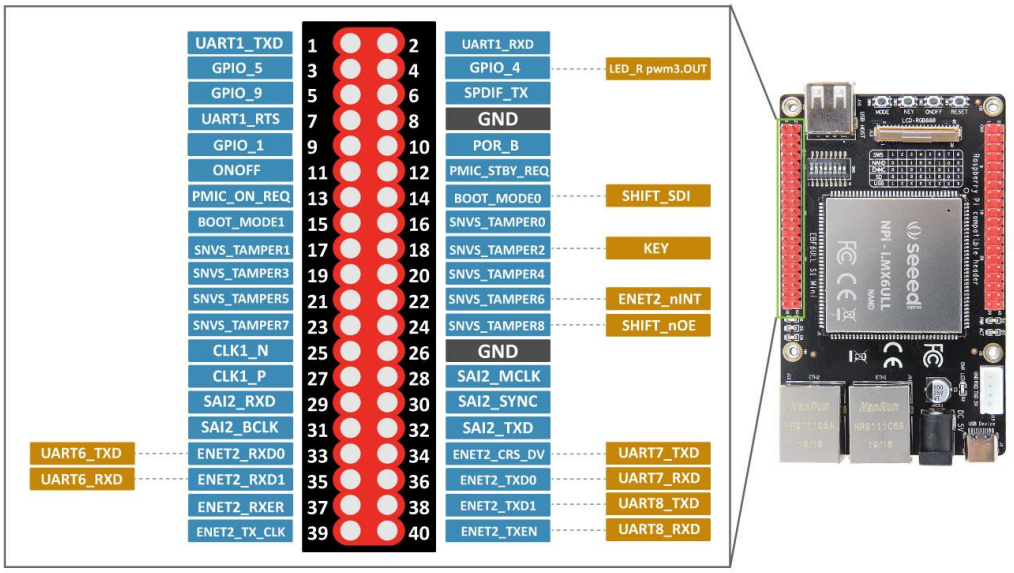
Interface





Pinout





GND VCC Defalt Extensions