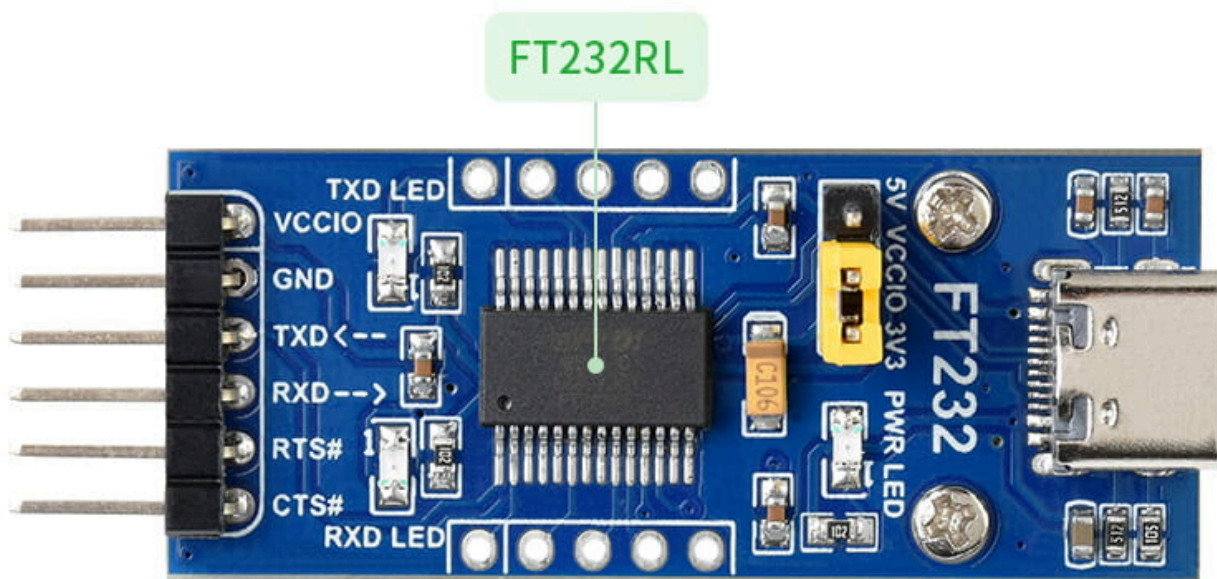


LPC811M001JDH16FP

Tutorial by Imeldushiiii

The easiest way, using LPCXpresso instead of OpenOCD :)

1. Gather the things you need



Our MCU is using ISP or SWD Boot mode, we will use ISP, which means we need USB/UART converter. Btw we can use other USB/UART converters, but my favourite is FT232.



LPCXpresso IDE, of course we can use Keil Uvision, but my license has expired xD, so say hi to LPCXpresso.

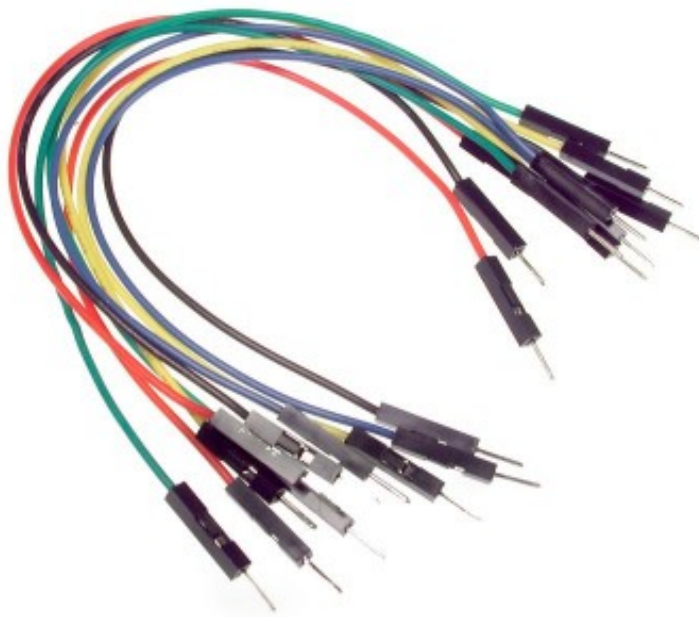
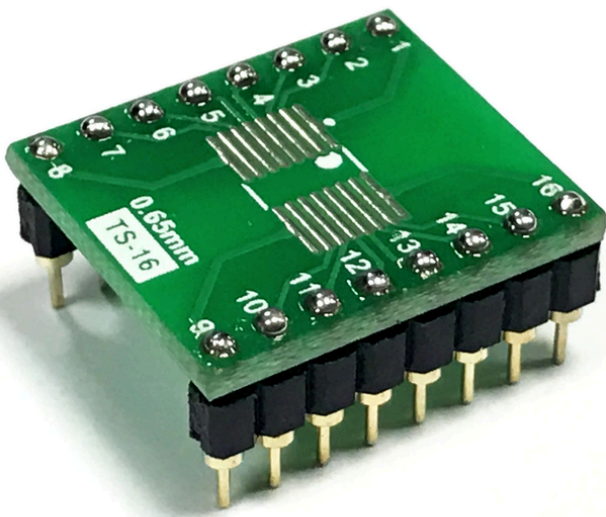
Download link:

<https://www.nxp.com/products/processors-and-microcontrollers/arm-microcontrollers/general-purpose-mcus/lpc54000-arm-cortex-m4-/lpcxpresso-ide-v8-2-2:LPCXPRESSO>

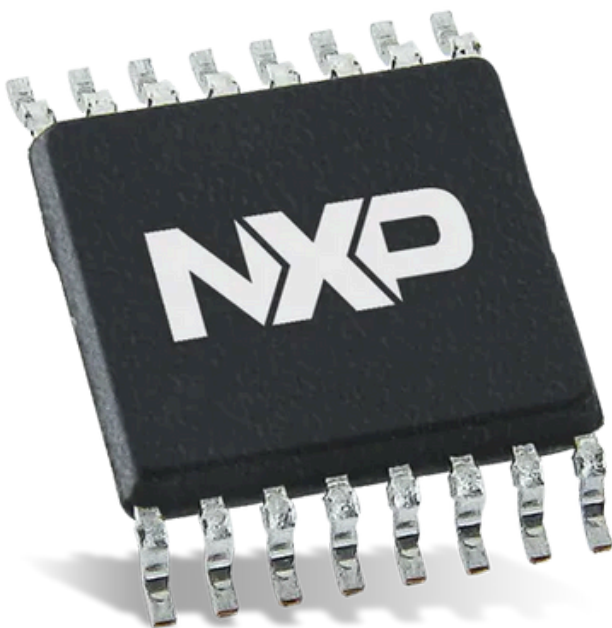
Scroll Down and you should see:

A screenshot of the NXP website showing the download page for the LPCXPRESSO IDE. The page has a light beige header with a 'Public (1)' filter. Below the header, there's a 'Filter by keyword' search bar. The main content area shows '1 download' and a list of development IDEs and build tools. The first item is 'LPCXpresso IDE' by FLEXERA, with a 'Rev All' version, dated Jan 27, 2022, and a size of 1 KB. To the right of the item is a 'DOWNLOAD' button and a bookmark icon. The left sidebar has a 'FILTER BY' section with 'Software Development Tools' and a checkbox for 'Development IDEs and Build Tools'.

TSSOP16 TO DIP
adapter, you can make
homemade PCB of
course :)



Jump Wires to connect
our MCU to debbuger



And of course our
LPC811 MCU tssop16

Flash Magic

Version 5.67.2022

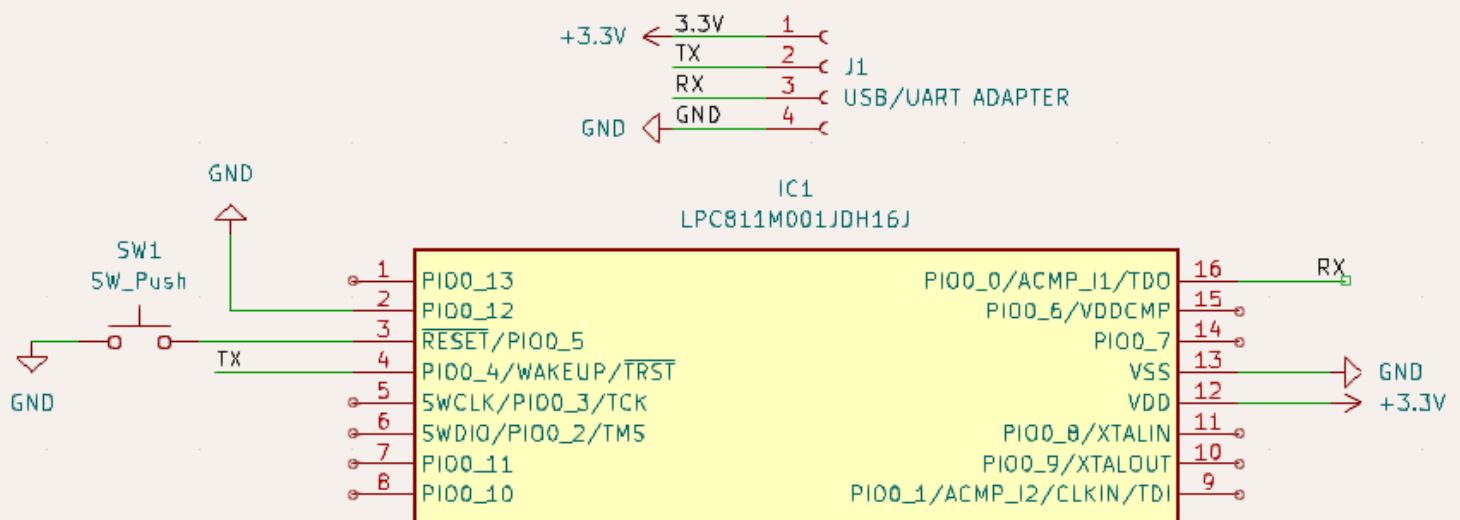


Developed for NXP Semiconductors
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Flash Magic software, to
connect MCU to
debbuger.

[https://www.flashmagictool.com/download.html
&d=flashmagic](https://www.flashmagictool.com/download.html&d=flashmagic)

2. Connect MCU to debbuger



WARNING! it goes into programming mode only when PIO0_12 is in low state, if not, it is in normal mode, if inside you connect PIO0_12 in high state, nothing will happen, but after pressing RESET it will go into programming mode, and vice versa

+3.3V to Pin (12)

GND to Pin(13)

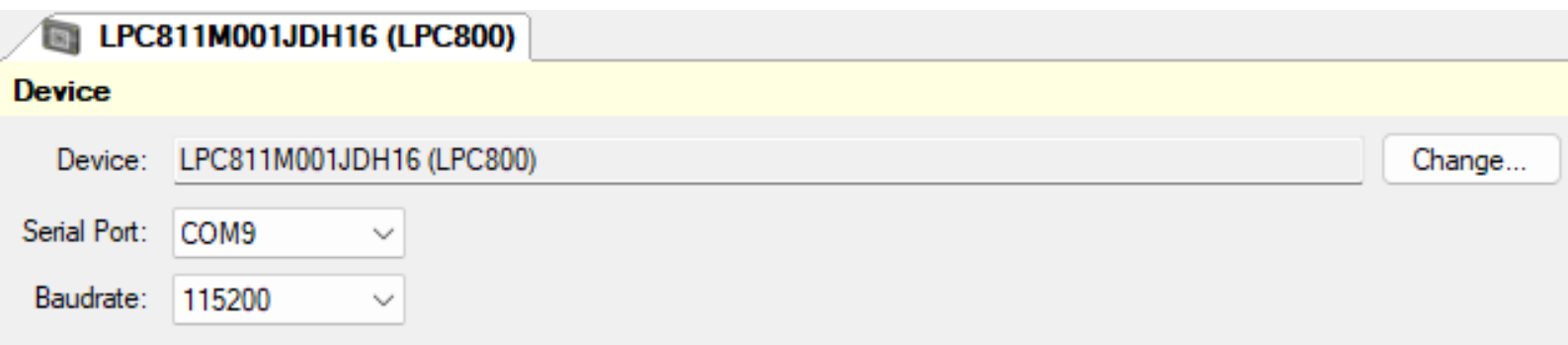
RX(debbuger) to Pin (4)

TX(debbuger) to Pin(16)

GND to Pin(2)

3. Verify MCU

Config:



The screenshot shows the STM32CubeProgrammer configuration window. At the top, a tab is labeled 'LPC811M001JDH16 (LPC800)'. Below this, the 'Device' section is highlighted in yellow. The configuration fields are as follows:

- Device:** A text box containing 'LPC811M001JDH16 (LPC800)' with a 'Change...' button to its right.
- Serial Port:** A dropdown menu showing 'COM9'.
- Baudrate:** A dropdown menu showing '115200'.

Options

☒ Verify after Programming ☐ Patch Before Programming [Settings...](#)

☐ Fill Unused Flash ☒ Go after Programming

☐ Activate Bank: ▾

Preferences for LPC811M001JDH16 (LPC800)

Hardware Communications Timings Misc

Crystal Frequency: MHz

UART

☒ Flash Magic controls ISP entry (COM Port DTR, RTS)

Signal timing T1: ms T2: ms

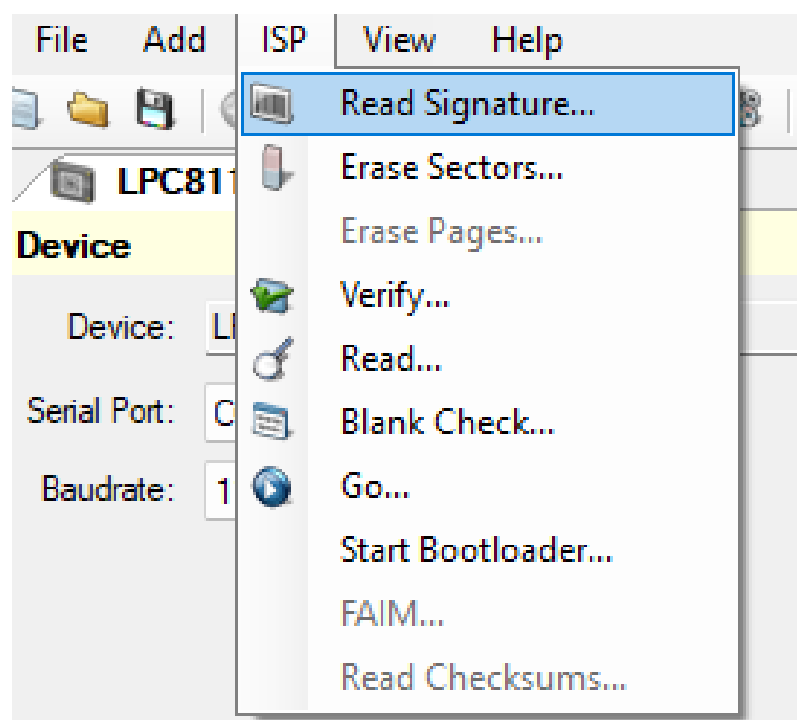
☐ Keep RTS asserted while COM port open

☐ Keep DTR, RTS asserted while COM port open

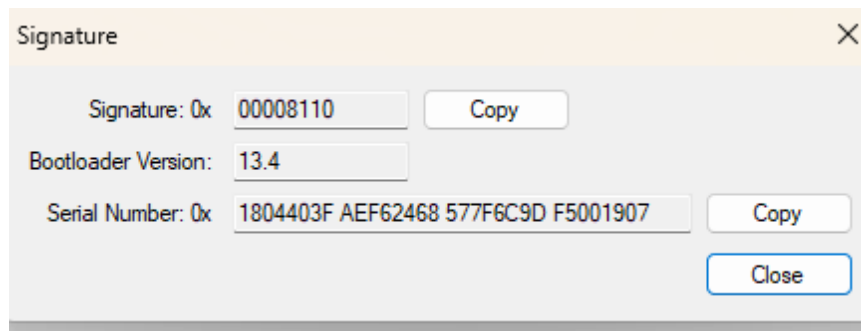
☐ Disable DTR, RTS

☐ Default COM port DTR, RTS behavior

Click Read Signature



Correct:



Error:

