

MA35D1 NuWriter Programming Tool

Joy of innovation
nuvoTon

| Agenda

- Overview
- Image Programming

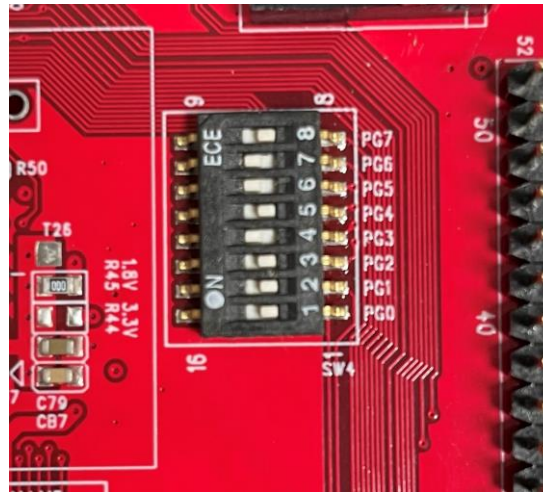
| Overview

Program Image to MA35D1

- The NuWriter is a programming tool for the MA35D1
- The MA35D1 supports the following four system boot-up storage media
 1. Boot from USB
 2. Boot from SD/eMMC
 3. Boot from NAND
 4. Boot from SPI Flash

| Power on Setting

- Power-on Setting DIP Switch (SW4): The GPIO PG0, PG1, PG2, PG3, PG4, PG5, PG6 and PG7 determine which storage to be boot from on the evaluation board
- The power on setting details can be referred to UM_NuMaker_MA35D1



| NuWriter – Tool Interface

- Command line interface
 - Windows
 - Linux
- GUI interface
 - Windows

| NuWriter – Attach

- This command is used to set up the connection and initialize the DDR
 1. Browse the right DDR image to initialize DDR parameter
 2. Attach



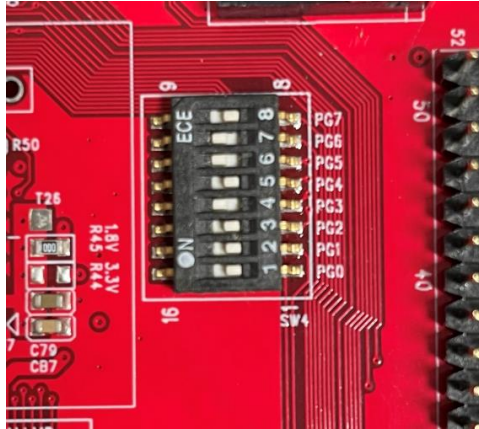
NuWriter - Download

- This command is used to write package file or single bin file to storage
 1. Choose storage media
 2. Browse the bin file
 3. Write



| System Boot

- Switch the power setting to boot from which storage have been written
- Push the reset button, and MA35D1 will boot from the storage media



```
Nuvoton Release Distro 5.5-dunfell numaker-som-ma35d16a81 ttyS0
numaker-som-ma35d16a81 login: root
```

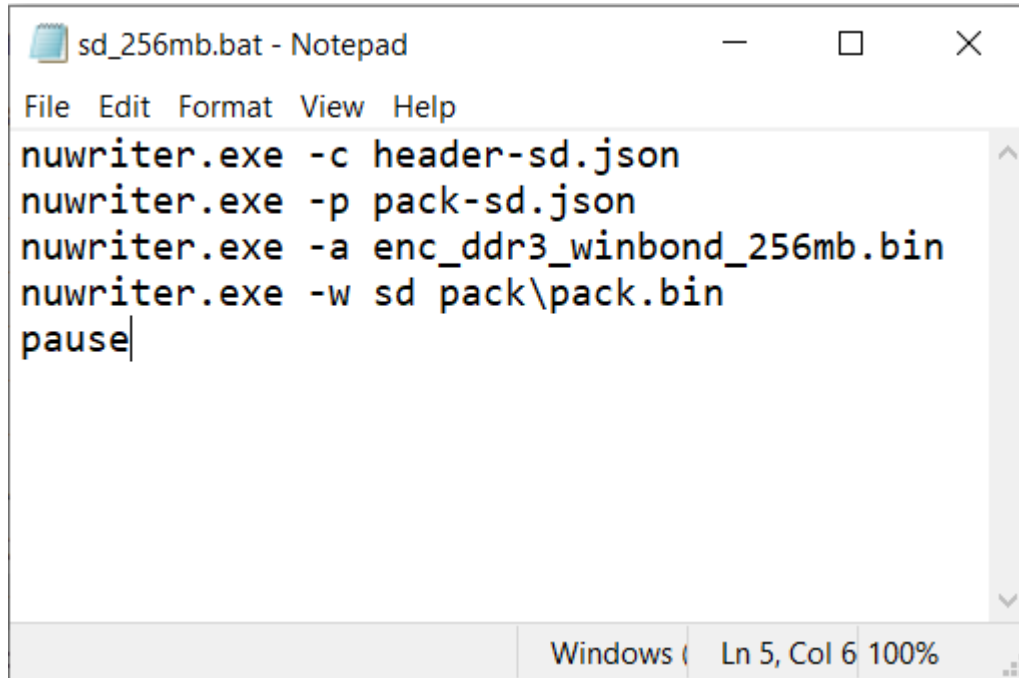

NuWriter – Optional Mode

- Develop mode
 - Convert
 - Pack/Unpack
- OTP mode



| NuWriter – Command Line interface

- Support Linux and Windows

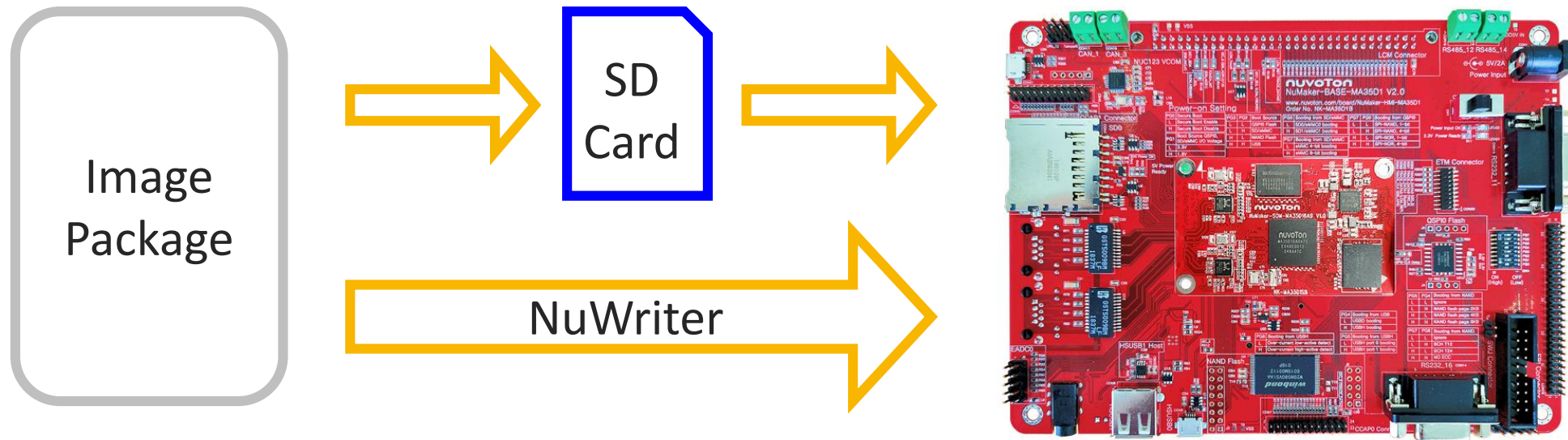


```
sd_256mb.bat - Notepad
File Edit Format View Help
nuwriter.exe -c header-sd.json
nuwriter.exe -p pack-sd.json
nuwriter.exe -a enc_ddr3_winbond_256mb.bin
nuwriter.exe -w sd pack\pack.bin
pause
```

```
nuwriter.py [-h] [-a] [-o OPTION
[OPTION ...]]
[-c | -p | -r READ [READ ...] | -w WRITE
[WRITE ...] | -e
ERASE [ERASE ...] | -s STORAGE
[STORAGE ...]]
[CONFIG]
```

| Quick programming for development

- Except NuWriter, SD card booting is another quick way to develop applications
- The programming time is faster than NuWriter programming



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Thank You

Danke

Merci

ありがとう

Gracias

Kiitos

감사합니다

धन्यवाद

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