

ASM106XR Linux Firmware Update User Manual

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Environmentally hazardous materials are not used in this product.

Revision History

Rev.	Date	Description
0.1	Aug 14, 2014	Initial Release

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Scope:

Customers can update ASMedia's ASM106xR on Linux platform.

Operation environment:

Linux 32bit operating system.

Command line Operation

1. Execute those command beloved:

Tool Version 1.0.1.1

```
test@test-System-Product-Name: ~/code/1062_Linux
test@test-System-Product-Name:~/code/1062_Linux$ sudo ./1062xfwdl

ASM1062x Firmware Update Tool V1.0.1.1
Usage:[option]...
  -U filename    Update firmware.
  -E             Erase SPI.
  -S             Display FW Version.
test@test-System-Product-Name:~/code/1062_Linux$
```

1) Show Firmware version

sudo./1062xfwdl -S

```
test@test-System-Product-Name: ~/code/1062_Linux
test@test-System-Product-Name:~/code/1062_Linux$ sudo ./1062xfwdl -s

FW Version: 141205_20_10_03
test@test-System-Product-Name:~/code/1062_Linux$
```

2) **Erase whole SPI**

`sudo ./1062xfwdl -E`

```
test@test-System-Product-Name: ~/code/1062_Linux
test@test-System-Product-Name:~/code/1062_Linux$ sudo ./1062xfwdl -e

Found 1 ASM deiceController 0 : PCI bus 0x 1, device 0x 0 function 0x 0 ...
Erase SPI flash ROM.....PASS
test@test-System-Product-Name:~/code/1062_Linux$
```

3) **Update Firmware and OPROM**

`“sudo ./ 1062xfwdl -U 028_000083.rom”`

028_000083.rom is the firmware and OPROM file located in the same directory

```
test@test-System-Product-Name: ~/code/1062_Linux
test@test-System-Product-Name:~/code/1062_Linux$ sudo ./1062xfwdl -u 09240000.ROM

Found 1 ASM deiceFind a SPI flash ROM, Capacity = 128 KbytesASM1062UpdateSpiFlashRom: Chip Erase status = 0
ASM1062UpdateSpiFlashRom: Blank Check status = 0
ASM1062UpdateSpiFlashRom: Write Data status = 0
Update SPI flash ROM.....PASS!!!
test@test-System-Product-Name:~/code/1062_Linux$
```

4) **Power cycle the device**

After FW update, shutdown the Linux system and operate the new FW and OPROM.

Error code and failed message table as below:

- 0 ASMT_SUCCESS
- 1 ASMT_IO_ERROR
- 2 ASMT_FWVERSION_UNMATCH
- 3 ASMT_UNMATCH
- 4 ASMT_DEVICE_NOT_FOUND
- 5 ASMT_FILE_NOT_FOUND
- 6 ASMT_SPI_VERIFY_ERROR
- 7 ASMT_RESET_FAIL
- 8 ASMT_MEMORY_ALLOCATE_ERROR
- 9 ASMT_TIMEOUT
- 10 ASMT_PARAMETER_INVALID
- 11 ASMT_SPI_BLANK_ERROR