

<input checked="" type="checkbox"/> Product System		<input type="checkbox"/> Other (x)
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How to load firmware for board DR4029

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Logging in with serial

- Use SERIAL to connect localhost
- When you see “Hit any key to stop autoboot”, please click “Enter” in your keyboard.

```

D - 210704 - APPSBL Image Loaded, Delta - (430795 Bytes)
B - 1350874 - QSEE Execution, Start
D - 60 - QSEE Execution, Delta
B - 1357108 - SBL1, End
D - 664669 - SBL1, Delta
S - Flash Throughput, 2007 KB/s (731014 Bytes, 364221 us)
S - DDR Frequency, 672 MHz

U-Boot 2012.07 [Chaos Calmer 15.05.1,r255] (Apr 22 2021 - 13:02:26)

smem ram ptable found: ver: 1 len: 3
DRAM: 512 MiB
machid: 0x8010006
NAND: ID = 302012c
Vendor = 2c
Device = 1
ONFI device found
SF: Detected MX25L1605D with page size 4 KiB, total 2 MiB
ipq_spi: page_size: 0x100, sector_size: 0x1000, size: 0x200000
130 MiB
MMC: qca_mmc: 0
In: serial
Out: serial
Err: serial
machid: 8010006
flash_type: 0
Hit any key to stop autoboot: 0
Net: MAC0 addr:c4:4b:d1:0:4a:58
PHY ID1: 0x4d
PHY ID2: 0xd0b1
ipq40xx_ess_sw_init done
eth0

(IPQ40xx) #

```


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Writing command

- Write the following command

If you want to load the firmware as below, write the command as follows

 nornand-ipq40xx-single-2168-202104231204

```
tftpboot 0x84000000 nornand-ipq40xx-single-2168-202104231204.img &&  
imgaddr=0x84000000 && source $imgaddr:script
```

Please note that please replace nornand-ipq40xx-single-2168-202104231204 with your firmware name

```
smem ram ptblate found: ver: 1 len: 3
DRAM: 512 MiB
machid : 0x8010006
NAND: ID = 302012c
Vendor = 2c
Device = 1
ONFI device found
SF: Detected MX25L1605D with page size 4 KiB, total 2 MiB
ipq_spi: page_size: 0x100, sector_size: 0x1000, size: 0x200000
130 MiB
MMC: qca_mmc: 0
In: serial
Out: serial
Err: serial
machid: 8010006
flash_type: 0
Hit any key to stop autoboot: 0
Net: MAC0 addr:c4:4b:d1:0:4a:58
PHY ID1: 0x4d
PHY ID2: 0xd0b1
ipq40xx_ess_sw_init done
eth0

(IPQ40xx) #
(IPQ40xx) # tftpboot 0x84000000 nornand-ipq40xx-single-2168-202104231204.img s& imgaddr=0x84000000
s& source $imgaddr:script
eth0 PHY0 Down Speed :10 Half duplex
eth0 PHY1 Down Speed :10 Half duplex
eth0 PHY2 Down Speed :10 Half duplex
eth0 PHY3 Down Speed :10 Half duplex
eth0 PHY4 up Speed :100 Full duplex
Using eth0 device
TFTP from server 192.168.1.10; our IP address is 192.168.1.11
Filename 'nornand-ipq40xx-single-2168-202104231204.img'.
Load address: 0x84000000
Loading: #####
```

■ Product System

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- It's done when you see as below picture shows.

```
#####
#####
#####
#####
#####
#####
#####
done
Bytes transferred = 23221388 (162548c hex)
## Executing script at 84000000
crc32+ SF: Detected MX25L1605D with page size 4 KiB, total 2 MiB
Flashing mibib: ## Copying 'mibib-e1b8dae18137ae92508d2592f50a0cfca44215db'
subimage from FIT image at 84000000 ...
crc32+ [ done ]
Flashing sb11: ## Copying 'sb11-a9831d8db37c18ebe43878fda3139605f6b0d448'
subimage from FIT image at 84000000 ...
crc32+ [ done ]
Flashing ddr-AP-DK07.1-C1: ## Copying 'ddr-AP-DK07.1-C1-b94afd0a0980962195094d37e91242
81bfa45421' subimage from FIT image at 84000000 ...
crc32+ [ done ]
Flashing tz: ## Copying 'tz-5371ff12800ec75037875b90289bbafe482dee9f' su
bimage from FIT image at 84000000 ...
crc32+ [ done ]
Flashing u-boot: ## Copying 'u-boot-b8bcbdc1998051e4fb46d4c339fa87b3d5ef9ea7
' subimage from FIT image at 84000000 ...
crc32+ [ done ]
Flashing ubi: ## Copying 'ubi-2113e3f3cc2a94e31f40d2c220669cca1b7e2845' s
ubimage from FIT image at 84000000 ...
crc32+
NAND erase: device 0 offset 0x0, size 0x4000000
Erasing at 0x3fe0000 -- 100% complete.
OK
NAND write: device 0 offset 0x0, size 0x1500000
22020096 bytes written: OK
[ done ]
(IPQ40xx) #
```

已连接 COM3 xterm 99x51 51, 13 1 会话 CAP NUM