

# AR#00001 - NVMe M2 SSD support on U+ Zynq modules

## Table of Content

- [Table of Content](#)
- Issue: NVME drivers does not work with all M2 NVMe memory cards
  - [Conditions:](#)
  - [Related Links:](#)
  - [Tested Cards:](#)

## Issue: NVME drivers does not work with all M2 NVMe memory cards

- very long boot time ( initialisation of M2 card): nvme nvme0: I/O 4 QID 0 timeout, completion polled
- Timeout on RW access: nvme nvme0: I/O 866 QID 2 timeout, completion polled

### Conditions:

- Used Vivado/Petalinux Version:
  - 2019.2
- NVME setup:
  - CONFIG\_NVME\_CORE=y
  - CONFIG\_BLK\_DEV\_NVME=y
  - # CONFIG\_NVME\_MULTIPATH is not set
  - CONFIG\_NVME\_TARGET=y
  - # CONFIG\_NVME\_TARGET\_LOOP is not set
  - # CONFIG\_NVME\_TARGET\_FC is not set
  - CONFIG\_NVM=y
  - CONFIG\_NVM\_PBLK=y
  - CONFIG\_NVM\_PBLK\_DEBUG=y
- RW Test:
  - time dd if=/dev/nvme0n1 of=/dev/null bs=1048576 count=1024
- Tested Modules+Boards:
  - TE0808 (with TEBF0808 and PCIe X1 M2 Adapter)
  - TE0802
  - TEB0911
  - TEB0912

### Related Links:

- ...

### Tested Cards:

M2 SSD	Status
<a href="https://business.kioxia.com/en-emea/ssd/client-ssd/bg4.html">https://business.kioxia.com/en-emea/ssd/client-ssd/bg4.html</a> blocked URL very short, only tested on TEB0912	✓
Corsair Force MP510 240 GB	✓
Crucial P1 CT500P1SSD8 500 GB	✓
Crucial P2 CT250P2SSD8 250 GB	✓

Samsung V-Nand SSD 950 Pro 256 GB	✓
Samsung 970 EVO Plus NVMe M.2 disk 500 GB	✓
WD BLUE SN550 (500GB, PCIe Gen3)	✗
WD BLUE SN500 (500GB, PCIe Gen2)	✗
WD PC SN720 NVMe SSD 256 GB	✗