



PCIe Troubleshooting and How-Tos

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Insufficient power on the PCIe slot error

If the error "insufficient power on the PCIe slot" is printed in dmsg, please refer to the Specifications section of your [hardware user guide](#) and make sure that you are providing your DPU the correct amount of power.

To verify how much power is supported on your host's PCIe slots, run the command `lspci -vvv | grep PowerLimit`. For example:

```
# lspci -vvv | grep PowerLimit
                                Slot #6, PowerLimit 75.000W; Interlock-
NoCompl-
                                Slot #1, PowerLimit 75.000W; Interlock-
NoCompl-
                                Slot #4, PowerLimit 75.000W; Interlock-
NoCompl-
```

Note

Be aware that this command is not supported by all host vendors/types.

HowTo update PCIe device description

`lspci` may not present the full description for the NVIDIA PCIe devices connected to your host. For example:

```
# lspci | grep -i Mellanox
a3:00.0 Infiniband controller: Mellanox Technologies Device a2d6
(rev 01)
```

```
a3:00.1 Infiniband controller: Mellanox Technologies Device a2d6
(rev 01)
a3:00.2 DMA controller: Mellanox Technologies Device c2d3 (rev
01)
```

Please run the following command:

```
# update-pciids
```

Now you should be able to see the full description for those devices. For example:

```
# lspci | grep -i Mellanox
a3:00.0 Infiniband controller: Mellanox Technologies MT42822
BlueField-2 integrated ConnectX-6 Dx network controller (rev 01)
a3:00.1 Infiniband controller: Mellanox Technologies MT42822
BlueField-2 integrated ConnectX-6 Dx network controller (rev 01)
a3:00.2 DMA controller: Mellanox Technologies MT42822 BlueField-2
SoC Management Interface (rev 01)
```

HowTo handle two BlueField DPU devices in the same server

Please refer to section "[Multi-board Management Example](#)".

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