

## BullSequana Edge: caution with Nvidia card A2

To use the **A2 model Nvidia GPU PCI card** with the **BullSequana Edge**, at least, the TS version must be the last, **TS 018.03** from February 2022 (or a newer).

Looking for the **Firmware version** of the BMC, on the **Overview** (Home) web page at bottom right, you should find it. If it is **53.01.001**, you are well with **TS 018.03**.

OpenBMC super

EDGE2-00106  
129.182.203.116

Server health Good | Server power Running | BMC Date and Time: Mar 23, 2022 7:46:22 AM GMT+1

**EDGE2-00106**

**Server information**

MODEL	MANUFACTURER
BullSequana Edge	BULL
SERIAL NUMBER	BIOS VERSION
XAN-SE2-00106	BIOS_SKD080.18.02.003

**BMC information**

HOSTNAME	ETH0 MAC ADDRESS
EDGE2-00106	08:00:38:BF:BA:48
ETH0 IP ADDRESSES	ETH1 MAC ADDRESS
IPv4: 138.128.128.82	08:00:38:BF:BA:49
ETH1 IP ADDRESSES	FIRMWARE VERSION
IPv4: 129.182.203.116	53.01.001

BMC time: Mar 23, 2022 7:51:30 AM GMT+1

Turn on server LED:  Off

Serial over LAN console: >

Edit network settings: >

The **BullSequana Edge** are delivered with a **Nvidia** GPU PCI card. The last delivered can be with a **A2** model from **Nvidia**

With **53.01.001** BMC version, you can verify the model of the **Nvidia** GPU card looking in **Health > Hardware status** web page for **PCI\_0** or/and **PCI\_1** at bottom: The DEVICE ID and SUBSYSTEM DEV ID are **NVIDIA GPU A2**.

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**Hardware status**

HDD_0		
HDD_1		
PCI_0		
DEVICE ID	PORT NUMBER	PORT SPEED
NVIDIA GPU A2	Root Port 2A	8 Gbps
PORT WIDTH	PRESENT	PRETTY NAME
8x	Yes	PCI_0
SUBSYSTEM DEV ID	SUBSYSTEM VID	VENDOR ID
NVIDIA GPU A2	NVIDIA	NVIDIA
PCI_1		

Collect BMC logs

Create log file

Download log file

Note: At the bottom of this web page, you have the buttons to take a dump (**BMC Logs**) of your EDGE.

Another prerequisite exists, if your **A2** card is using the Firmware version **94.07.5B.00.55**, a **BIOS** parameter must be changed:

**Advanced > Socket Configuration > Common RefCode Configuration > MMIO High Granularity Size**

You have to customize it from **16G** to **256G**.

If the **BIOS** change is not made, the **A2** card will not be accepted.

Creating a **nvidia-bug-report.log**, you will find in it an error of the following type:

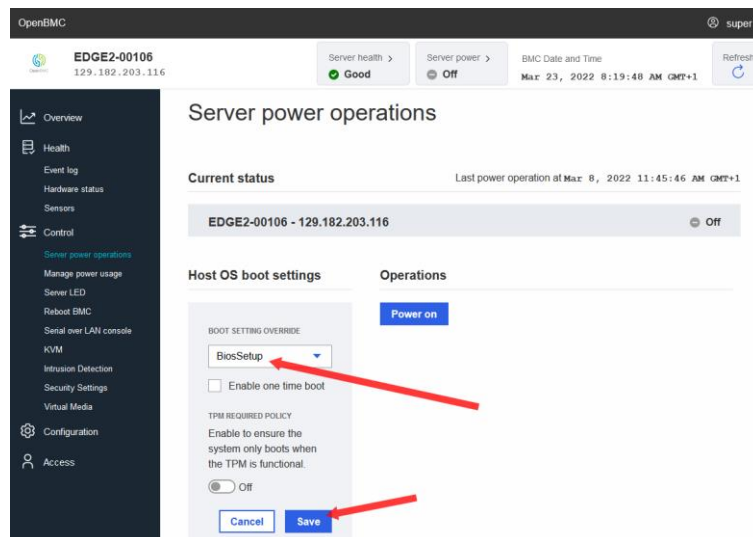
*NVRM: This PCI I/O region assigned to your NVIDIA device is invalid:*

*NVRM: BAR1 is 0M @ 0x0 (PCI:0000:17:00.0)*

*NVRM: The NVIDIA probe routine failed for 1 device(s).*

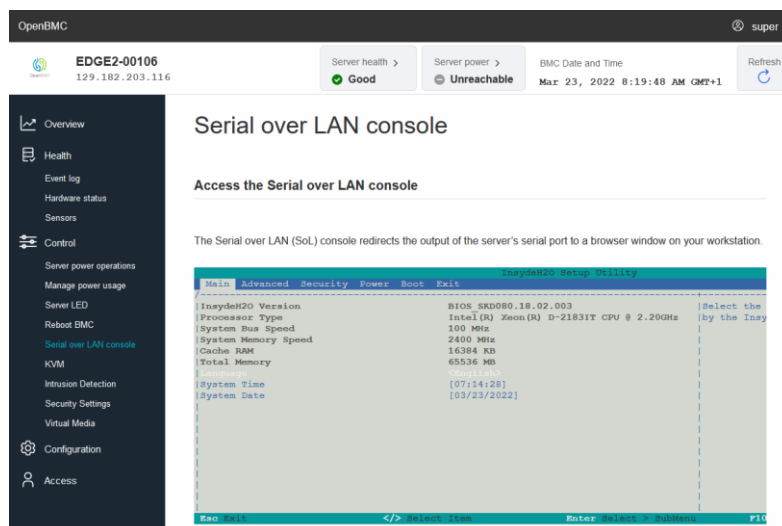
*NVRM: None of the NVIDIA devices were initialized.*

To change the **BIOS** parameters, you must stop the Host and then change the **BOOT SETTING OVERRIDE** to set it to **BiosSetup** and then use the **Save** button:

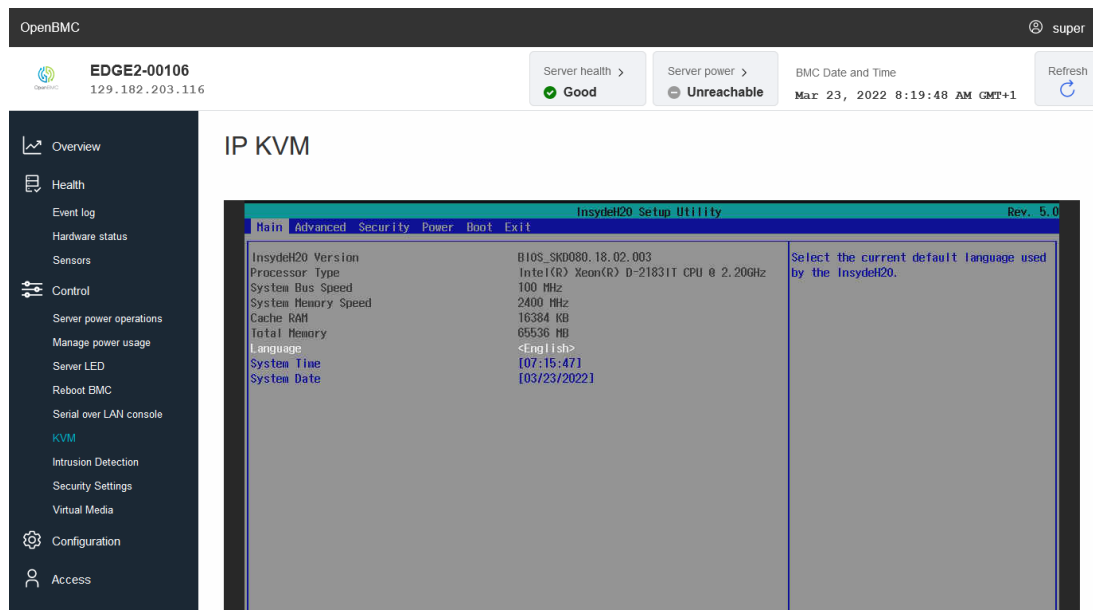


Then do the **Power on...**

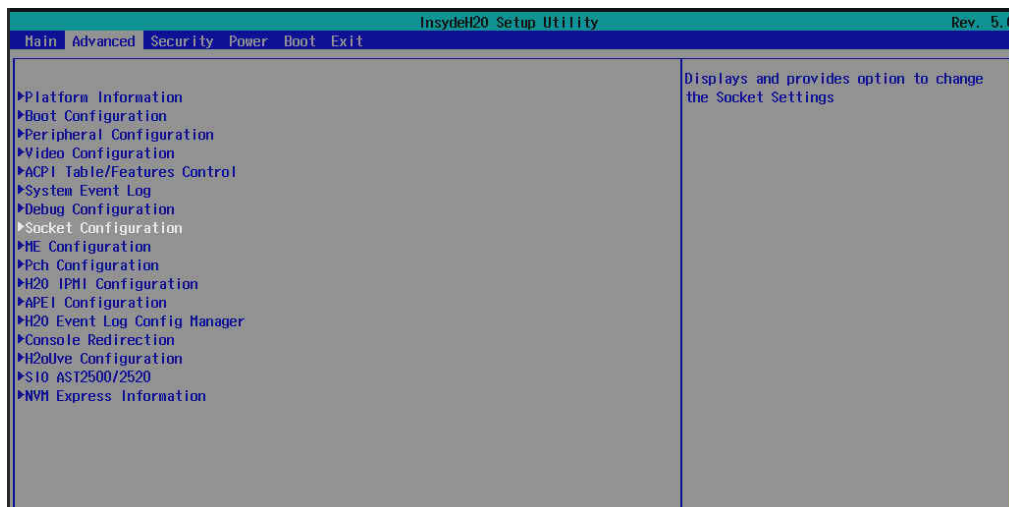
You can follow the start of the system looking the **Control > Serial over LAN console** till being on the **BIOS** setup (InsideH2O Setup Utility)



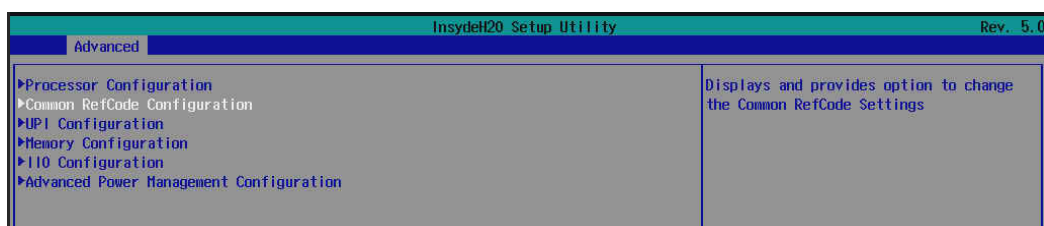
Then use the **Control > KVM** web page:



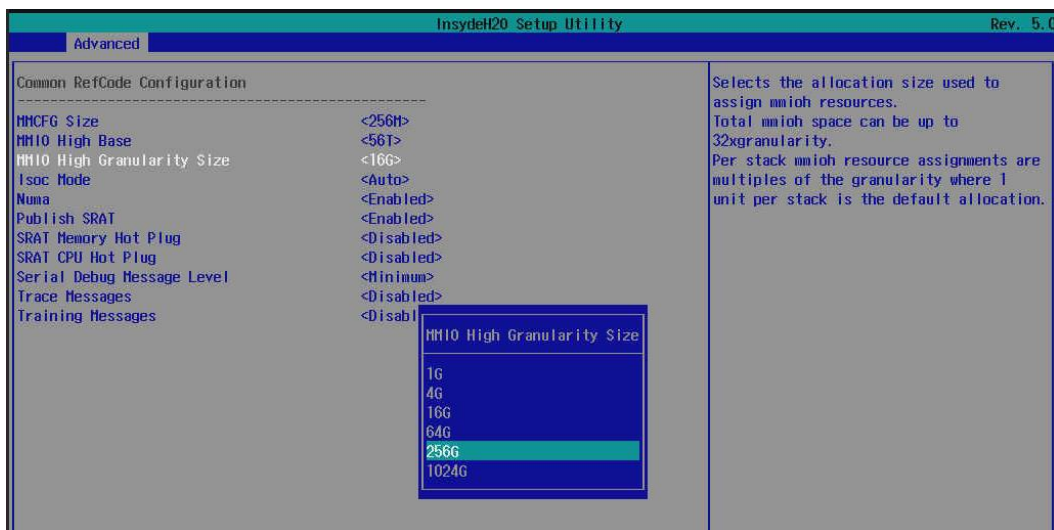
You will work now inside the **KVM** window. Use the right arrow key to go on **Advanced** tab and use the down arrow to be on **Socket Configuration**:



Do **Enter** and use the down arrow to be on **Common RefCode Configuration**:

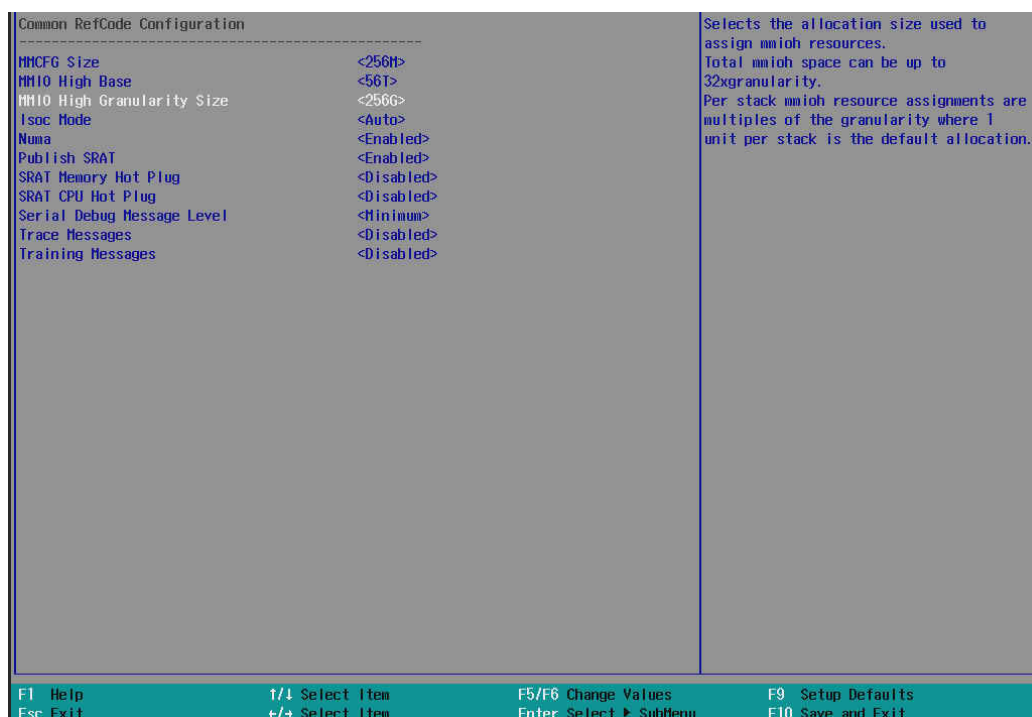


Again, do **Enter** and go down to be on **MMIO High Granularity Size** (You should have the default value **16G**)

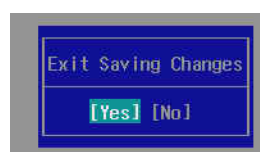


With the last Firmware on **Nvidia** card, you must choose the **256G** value here.

So do **Enter** and go down to select **256G** and do **Enter** to validate and then do **F10** to Save and Exit



And accept with **Enter** (Yes)



Note about BMC **53.01.001** delivered in **TS 018.03** you can see the following errors in the **Health > Event log**:

**BMC booted from backup flash.Only limited operations allowed**

<input type="checkbox"/>	#184	LOW	INFORMATIONAL	Mar 15, 2022 1:54:51 PM GMT+1	▼
BMC booted from backup flash.Only limited operations allowed					

**But it is a false Event!**

This message should occur only if you push the **RECO**very button!

The good Event seen when the BMC has booted should be:

**BMC booted from main flash**

<input type="checkbox"/>	#185	LOW	INFORMATIONAL	Mar 15, 2022 2:30:30 PM GMT+1	▼
BMC booted from main flash					

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