



IPMI QUICK START GUIDE

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BMC Management Port



In order to be able to use ipmitool, the connector must be plugged into the BMC's NIC which varies on each board.

JBOD8281



Figure 1: 8281 (In Chassis) BMC PORT

The connector must be plugged into BMC Port “P6” on the JBOD8281 processor board as illustrated by the blue arrow on the above image.

Note: The default static IP configuration for JBOD is 192.168.1.10/24



SSP8268

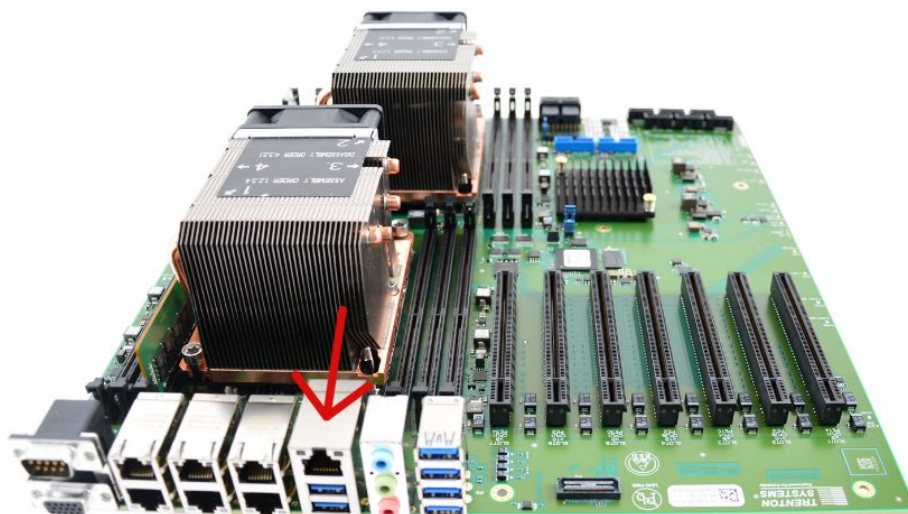


Figure 1.5: 8268 BMC PORT

The connector must be plugged into BMC Port “P35” on the SSP8268 motherboard as illustrated by the red arrow on the above image.

SEP8253

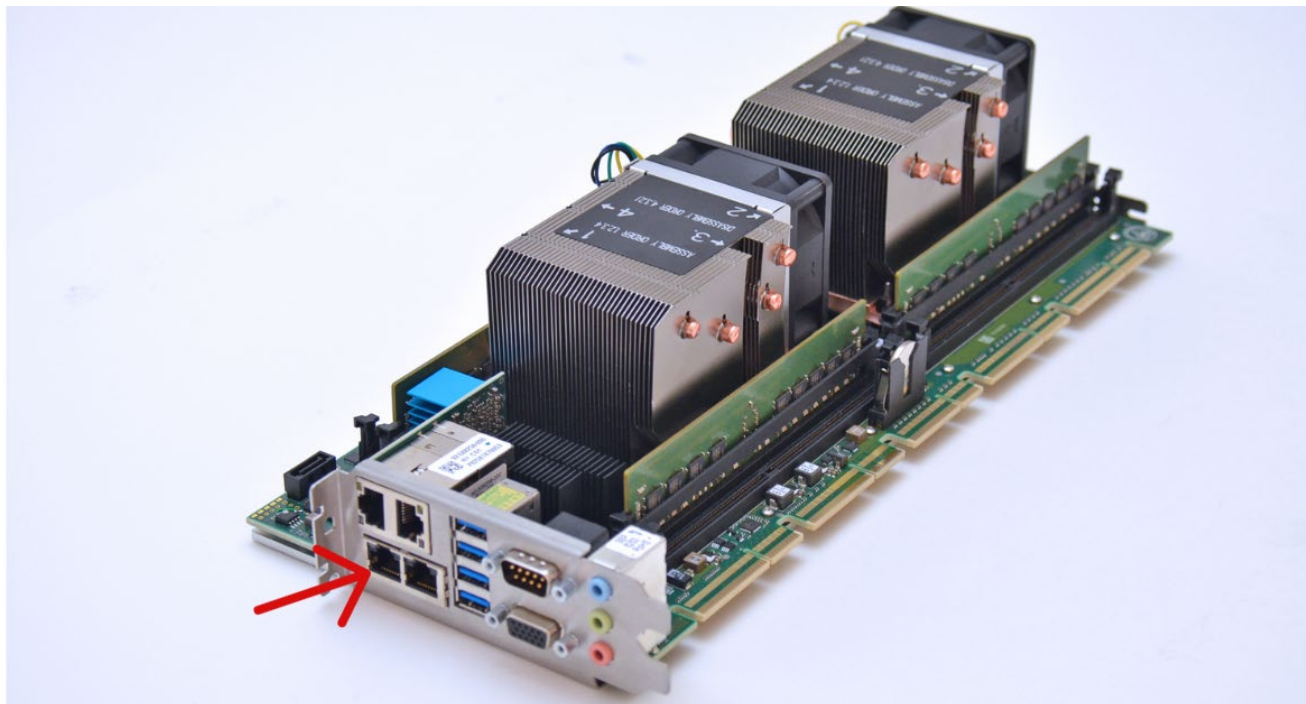


Figure 2: 8253 BMC PORT

The connector must be plugged into BMC Port “P7” on the SEP8253 processor board as illustrated by the red arrow on the above image.

HEP8225

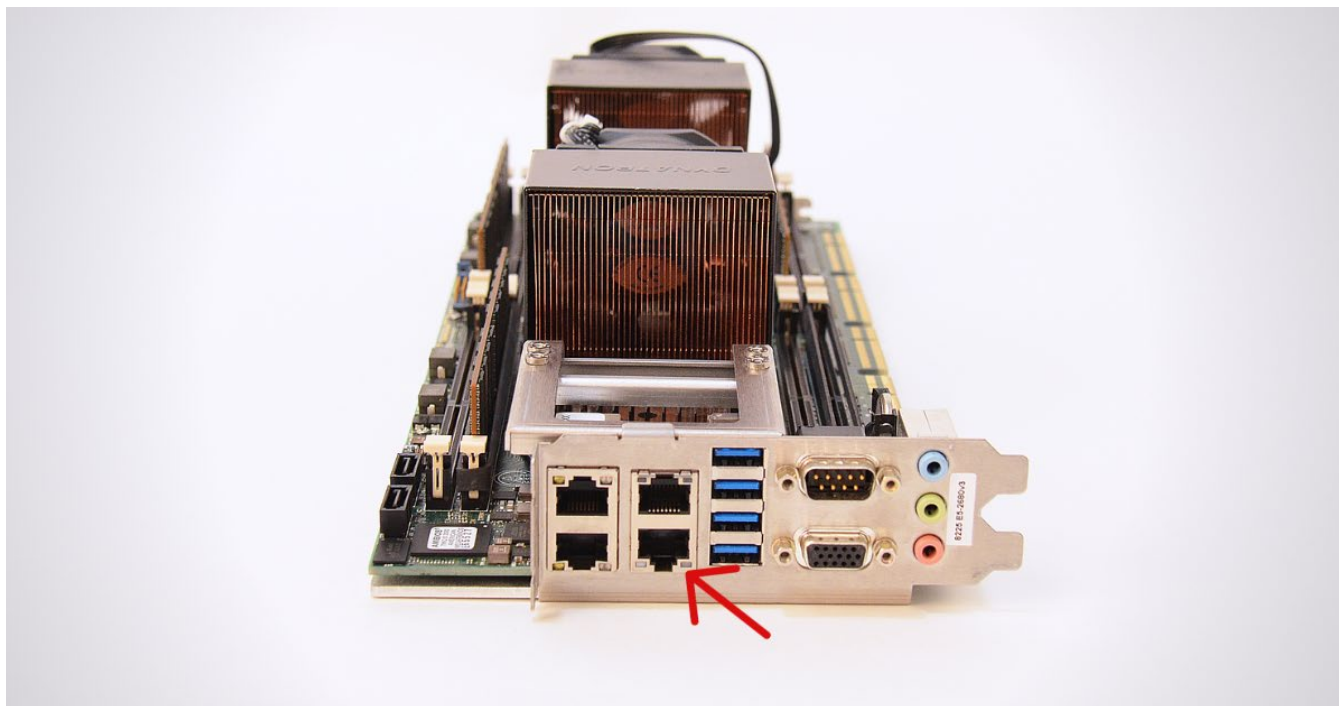


Figure 3: 8225 BMC PORT

The connector must be plugged into BMC Port “P6” on the HEP8225 processor board as illustrated by the red arrow on the above image.

MSL8256

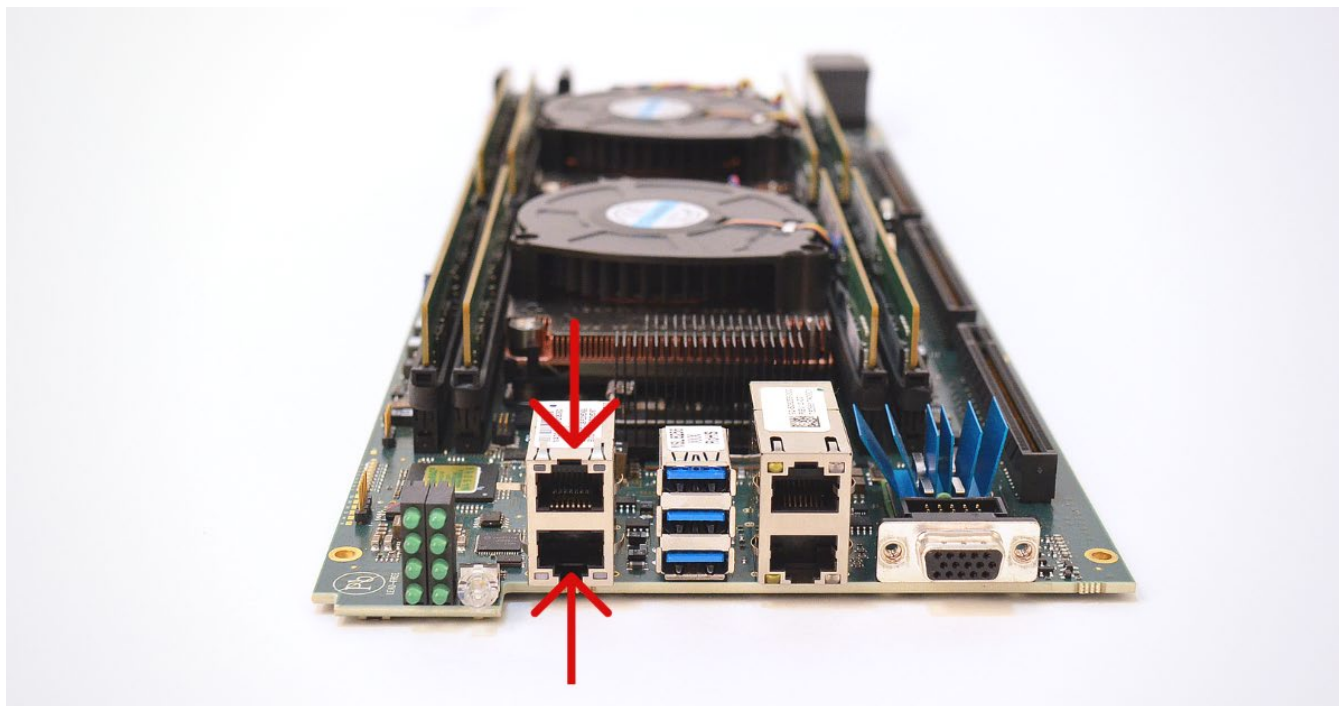


Figure 4: 8256 BMC PORT

The connector must be plugged into BMC Port “P9” on the MSL8256 processor board as illustrated by the red arrows on the above image.

MBK8257

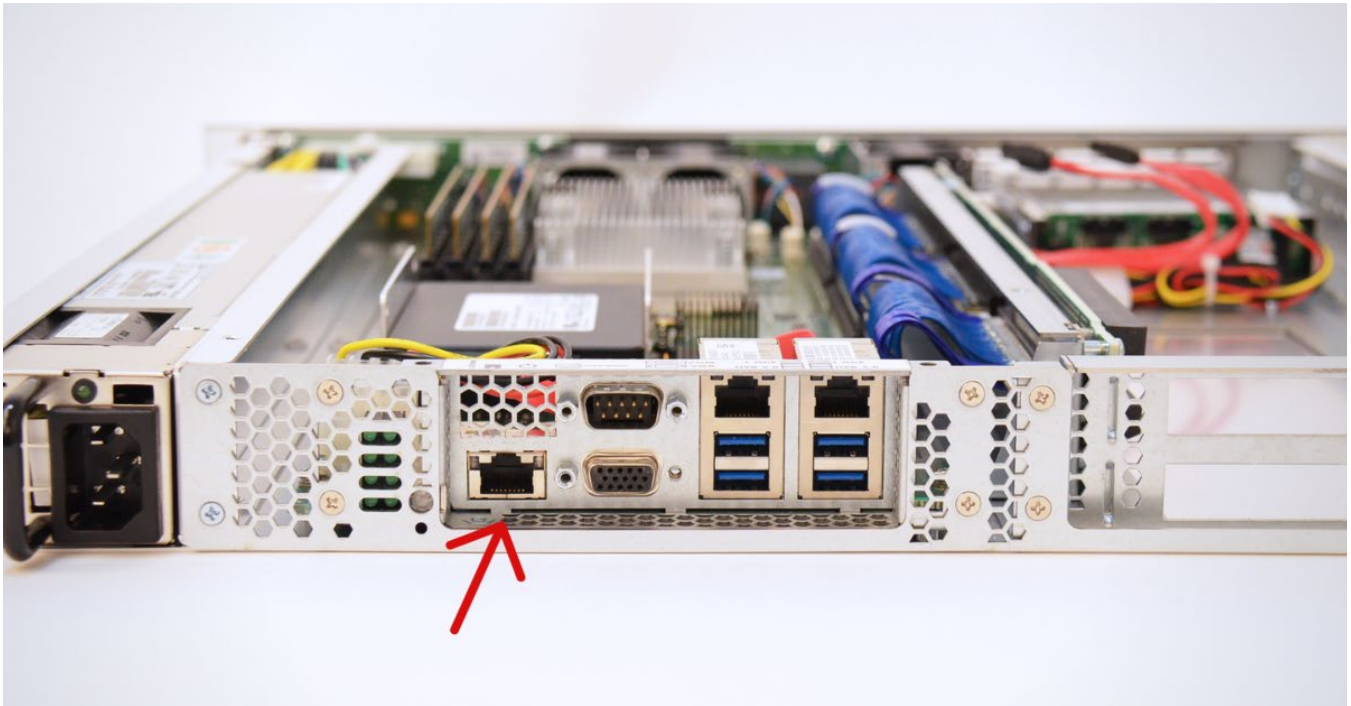


Figure 5: 8257 BMC PORT

The connector must be plugged into BMC Port “P1” on the MBK8257 processor board as illustrated by the red arrow on the above image.

MBC8272

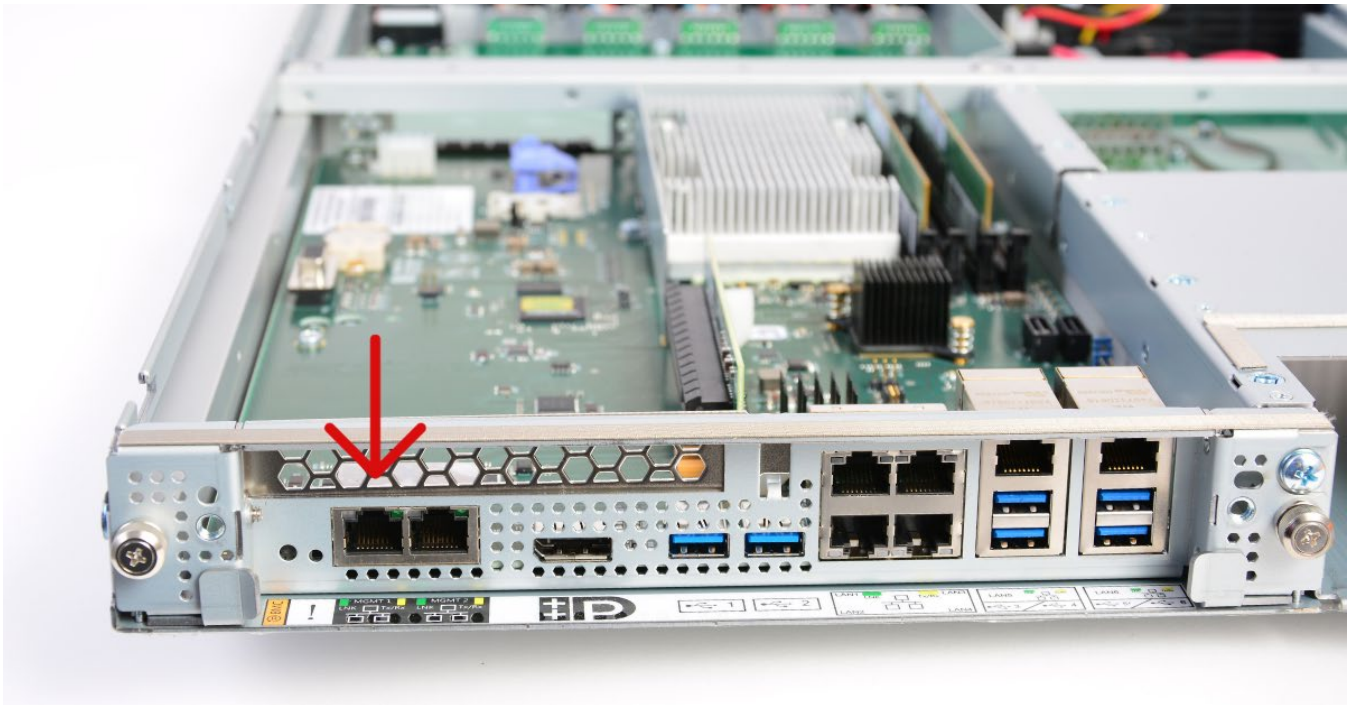


Figure 6: 8272 BMC PORT

The connector must be plugged into BMC Port “P54” on the MBC8272 processor board as illustrated by the red arrow on the above image.

MBC8240



Figure 7: 8240 BMC PORT

The connector must be plugged into BMC Port “P26” on the MBC8240 processor board as illustrated by the red arrow on the above image.

ION MINI PC



Figure 8: ION BMC PORT

The connector must be plugged into BMC Port “A4” on the ION Mini PC as illustrated by the red arrow on the above image.

Installing and Enabling IPMITool in Linux

Out of the box, IPMITool needs to be installed and enabled for use on the system. Installation of ipmitool varies based on which distribution of Linux is on the system. Installation of ipmitool is achieved by executing the following commands in a terminal with root privilege:

- Enterprise Linux 5.x / CentOS 5.x: *yum install OpenIPMI OpenIPMI-tools*
- Enterprise Linux 6.x / CentOS 6.x or Fedora: *yum install OpenIPMI ipmitool*
- Enterprise Linux 7.x / CentOS 7.x or Fedora: *yum install OpenIPMI ipmitool*
- Ubuntu 14.04 LTS: *apt-get install ipmitool*

To enable IPMI access on Redhat/CentOS distributions, execute the following commands in a terminal with root privilege:

- */sbin/chkconfig ipmi on*
- *Service ipmi start*

In order to know ipmitool is installed and ready to use, execute the command "*ipmitool mc info*" to check status of the BMC.

Trenton Systems have either an AMI IPMI solution (MEGARAC) or Insyde® IPMI solution (Supervyse). Both IPMI solutions also have a Web Interface to interact with.

Login credentials for the AMI Web Interface is one of the two options described below:

USER:admin PASS:admin

USER:admin PASS:[SHB board serial #]



Getting the BMC IP Address from BIOS

SYSTEMS IDENTIFICATION LIST

Systems with AMI BIOS:

- SEP8253

- MSL8256

- MBK8257

- SSP8269

- MBC8240

- HEP8225

- SSP8268

Systems with Insyde® BIOS:

- MBC8272



GETTING THE BMC IP ADDRESS FROM AMI BIOS

1. When the custom Trenton splash screen appears, hit the DELETE button.



Figure 8: Trenton Splash Screen

2. AMI's Main page titled: Aptio Setup Utility will open – Copyright © 2018 American Megatrends, Inc

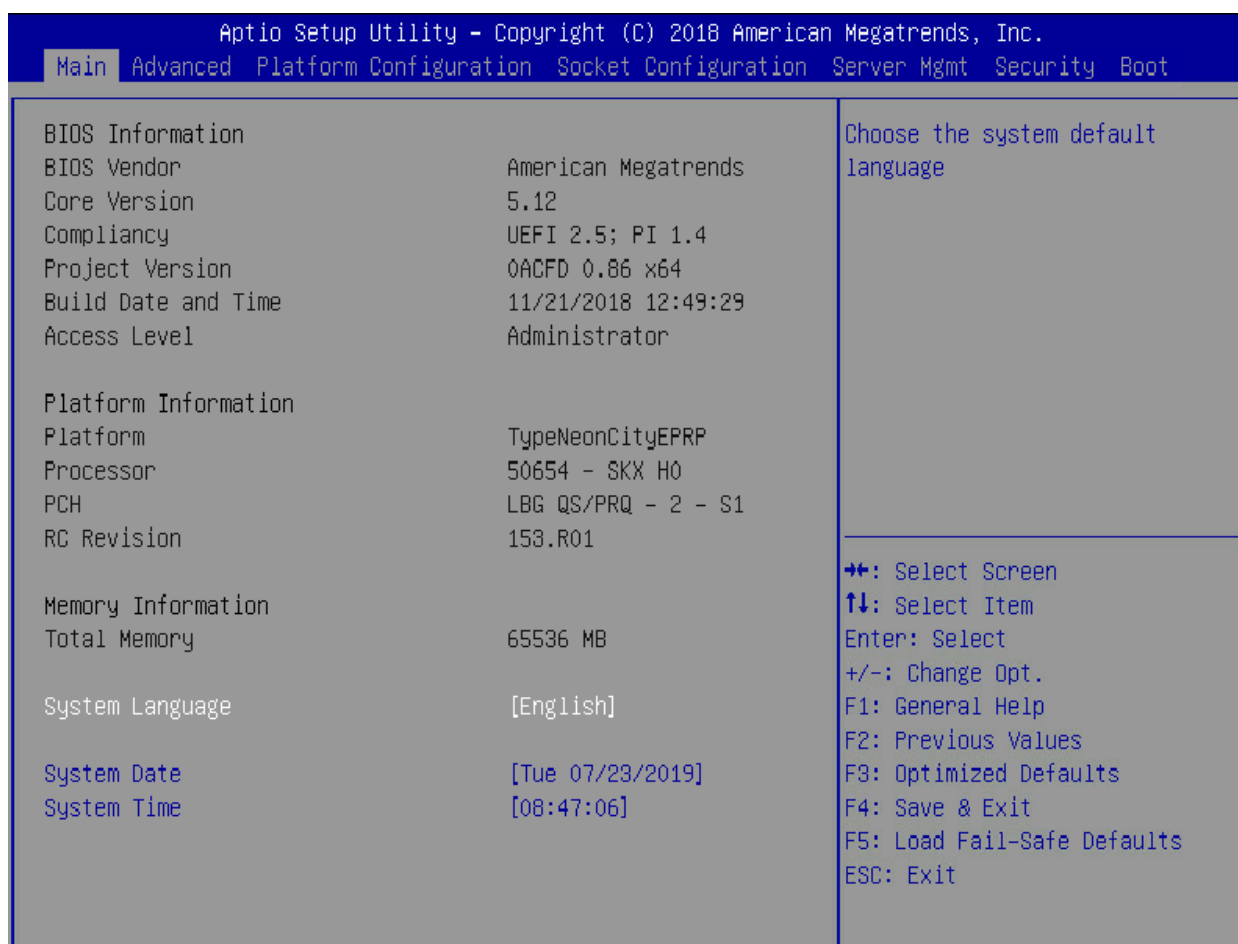


Figure 9: Aptio Setup Utility Main Page

3. Navigate to the Server Mgmt tab. Select BMC network configuration. Hit ENTER

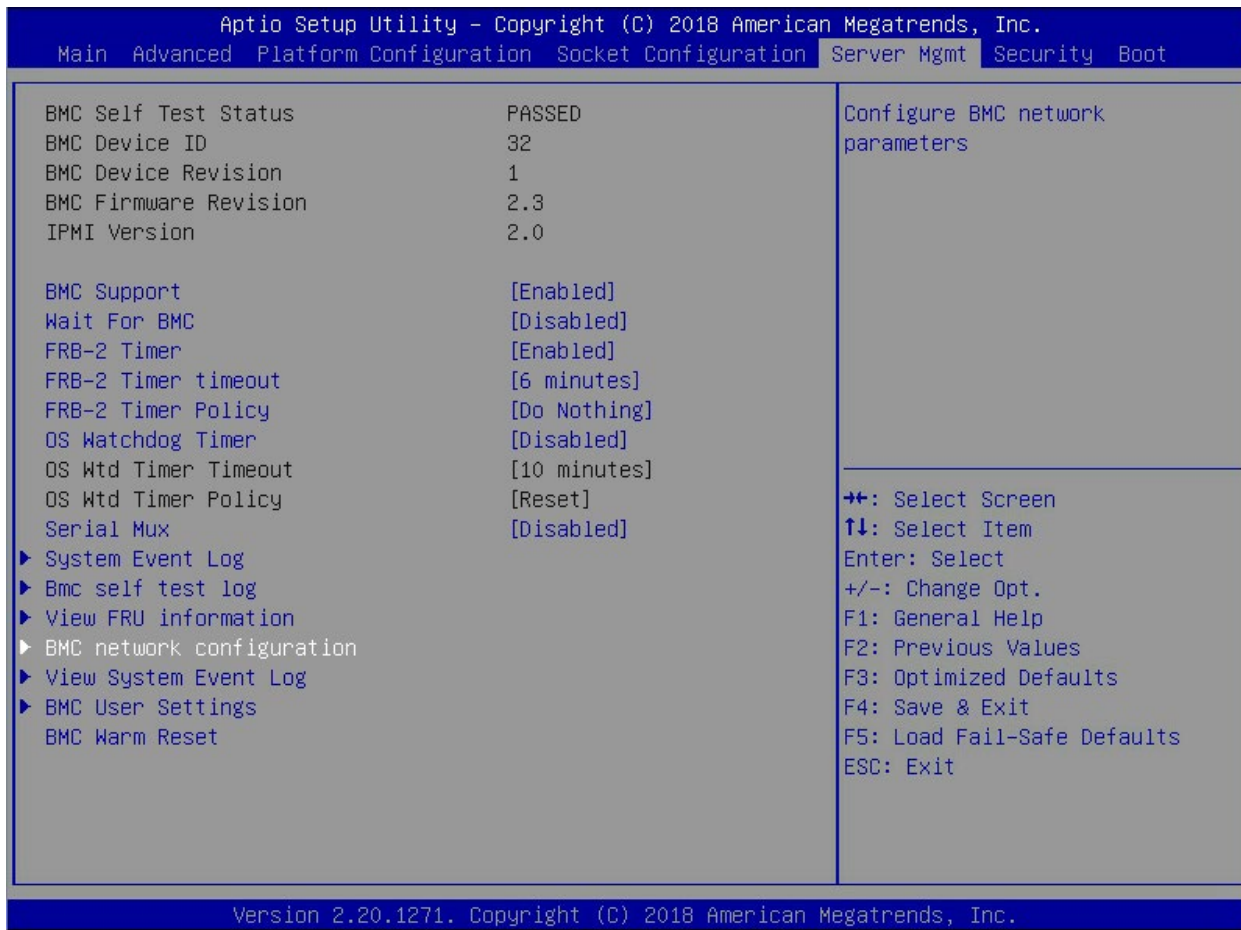


Figure 10: Server Mgmt Page

- The IP address will be displayed.

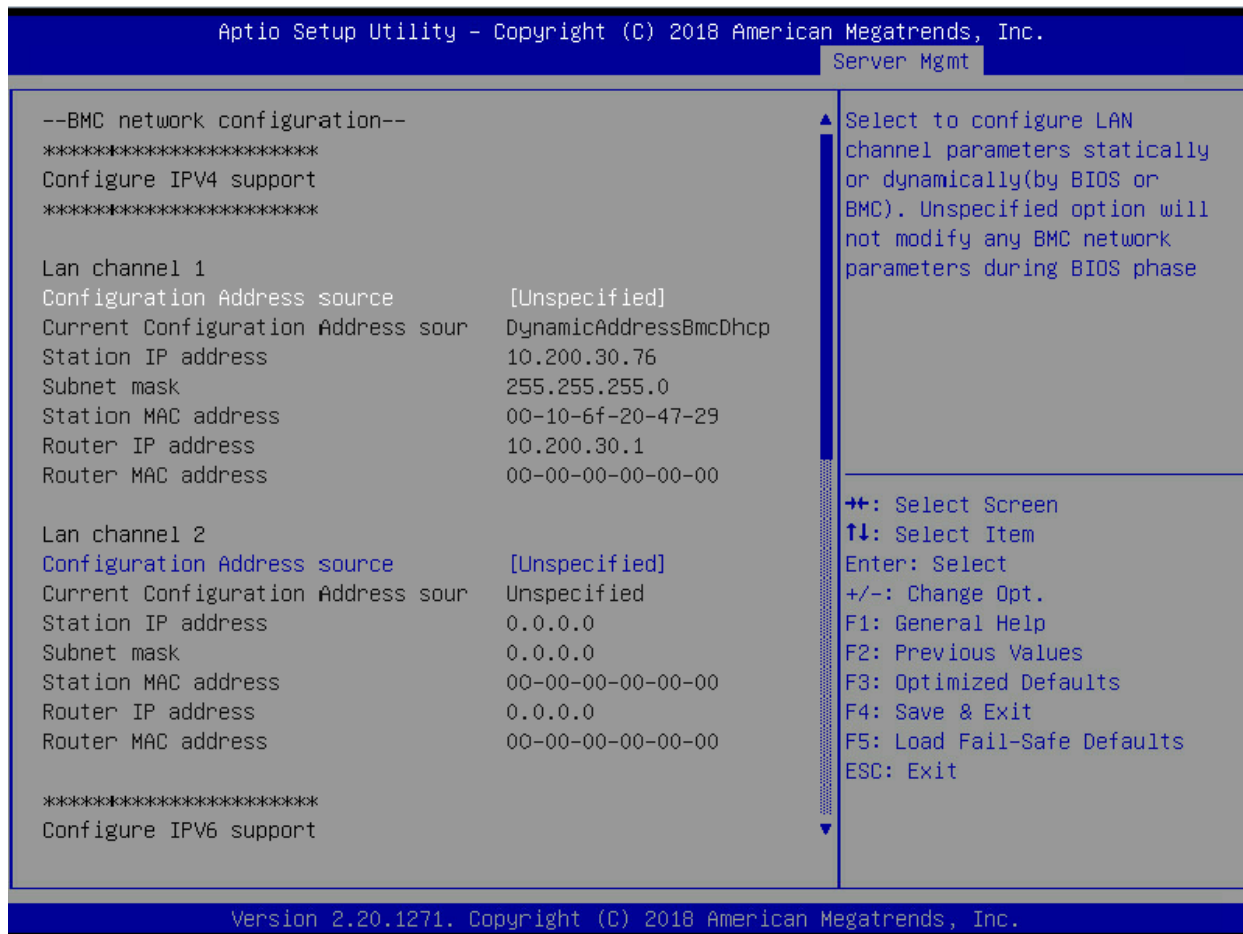


Figure 11: Server Mgmt Page – IP Address Location



GETTING THE BMC IP ADDRESS FROM INSYDE® BIOS

1. When the Insyde® splash screen is displayed, hit the ESC button. The message “ESC is pressed. Go to boot options,” will be displayed (Figure 13).

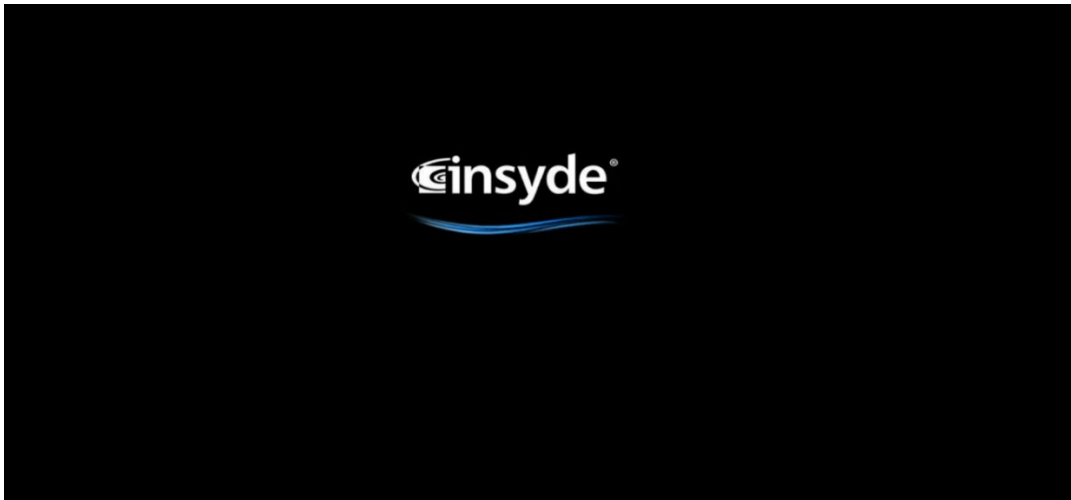


Figure 12: Insyde® Screen

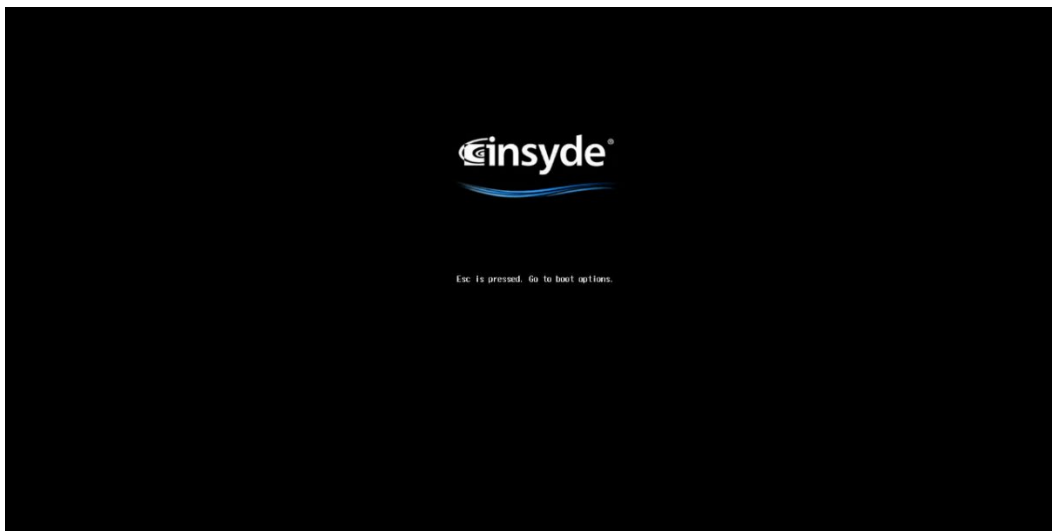


Figure 13: Insyde® Escape Screen



2. The Insyde® Front Page will open. Select Setup Utility. Hit ENTER

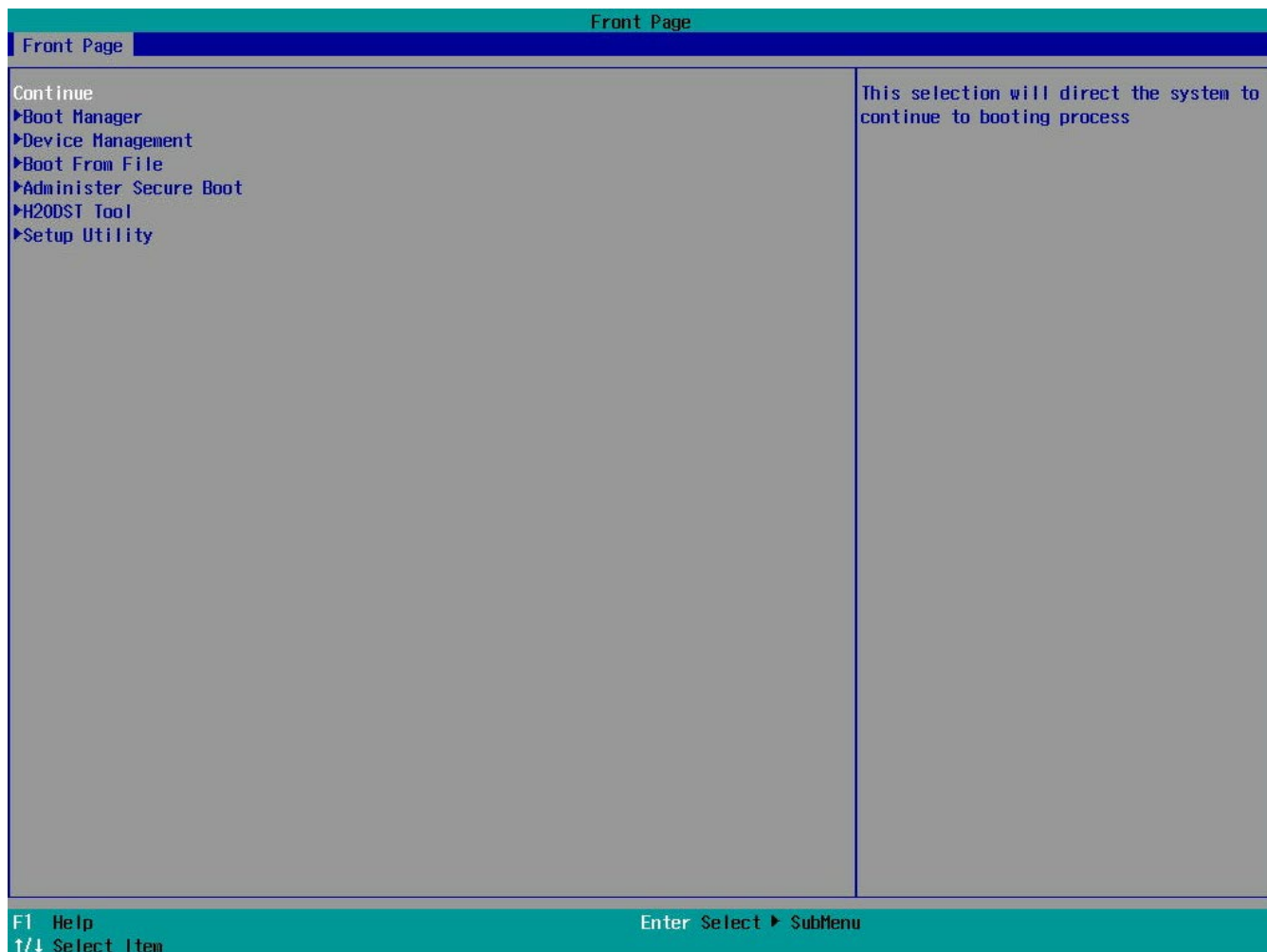


Figure 14: BIOS Front Page

3. The InsydeH20 Setup Utility will open. The header bar will display Main, Advanced, Security, Power, Boot and Exit. Navigate to the Advanced tab.

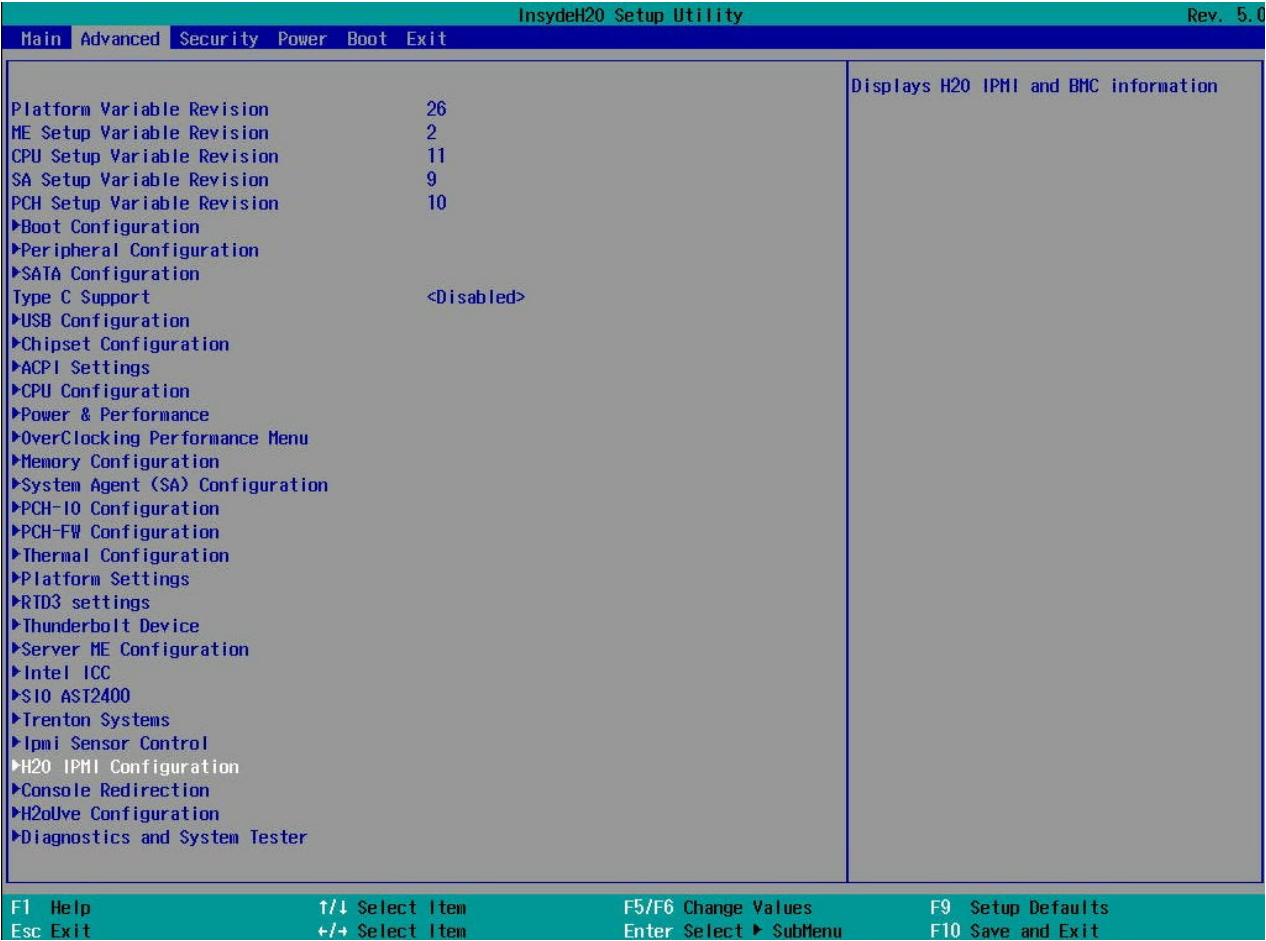


Figure 15: InsydeH20 Setup Utility Screen



- After scrolling to the Advanced tab, select H20 IPMI Configuration highlighted in white below. Hit ENTER on H20 IPMI Configuration.

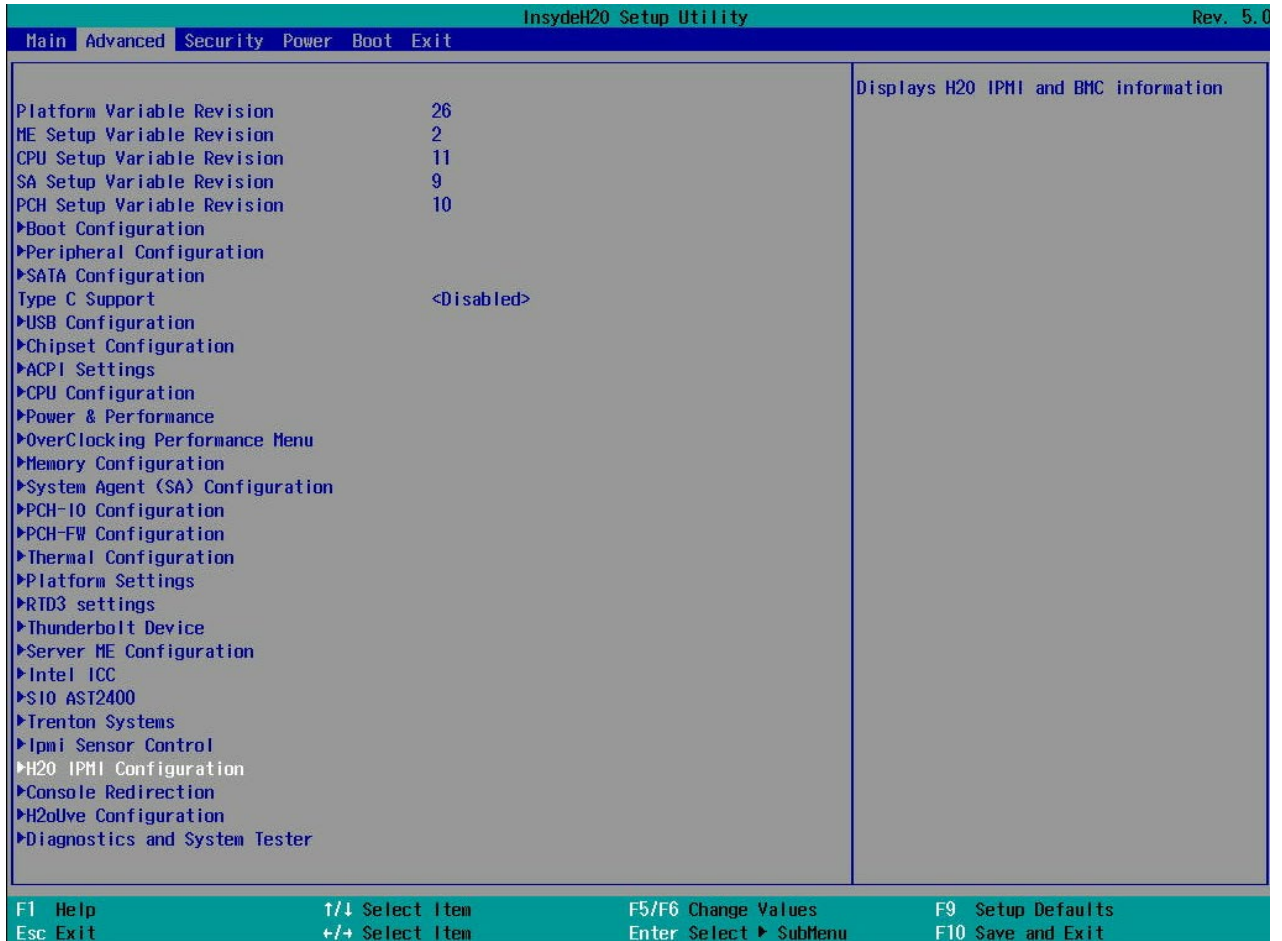


Figure 16: InsydeH20 Setup Utility Screen



5. A new page will open under the Advanced tab. Select Execute H20 IPMI Utility and hit ENTER

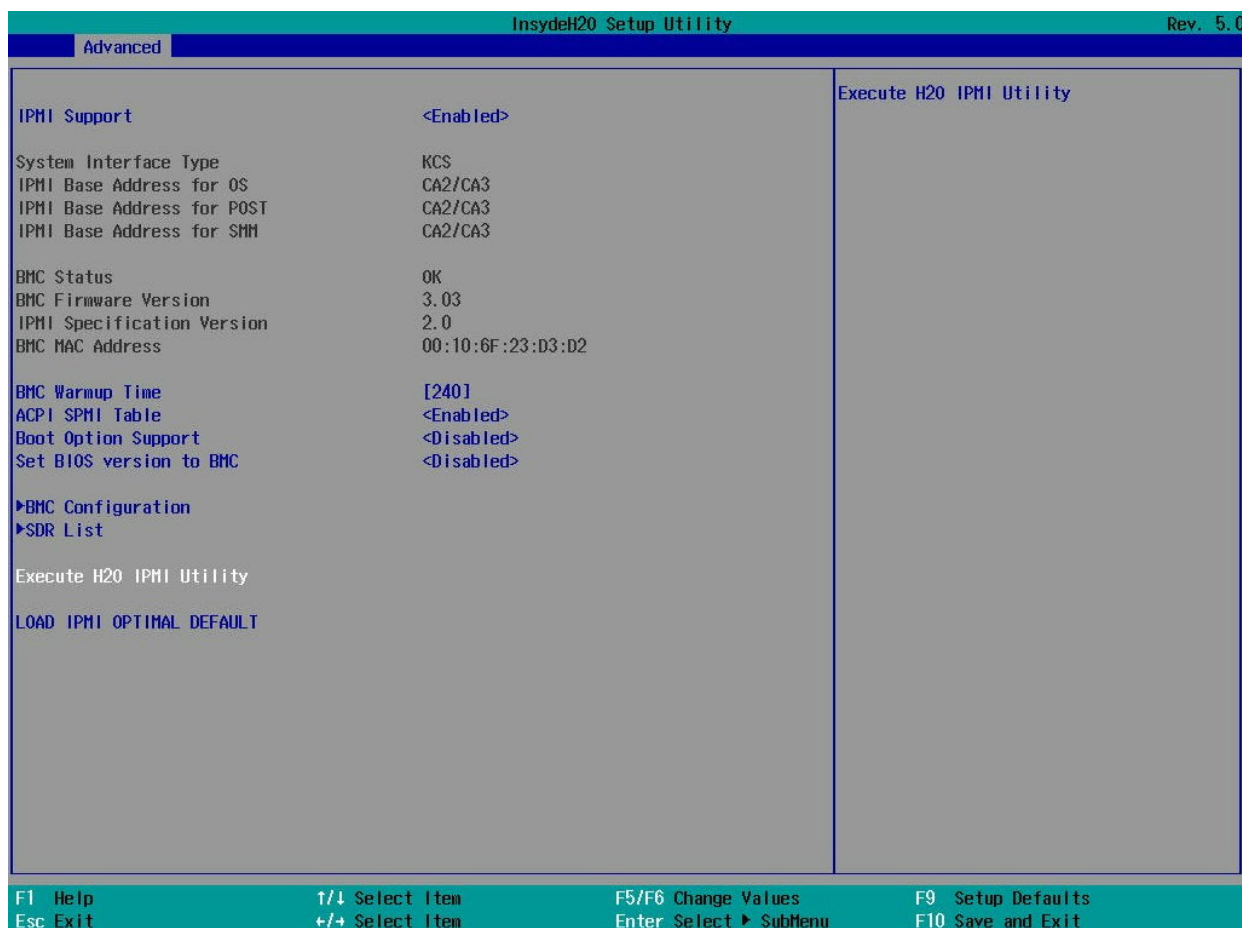


Figure 17: InsydeH20 Setup Utility- Advanced Screen



6. The H20 IPMI Utility page will open. Select Lan Commands and hit ENTER



Figure 18: H20 IPMI Utility Screen

7. Select LAN Configuration Parameters and hit ENTER

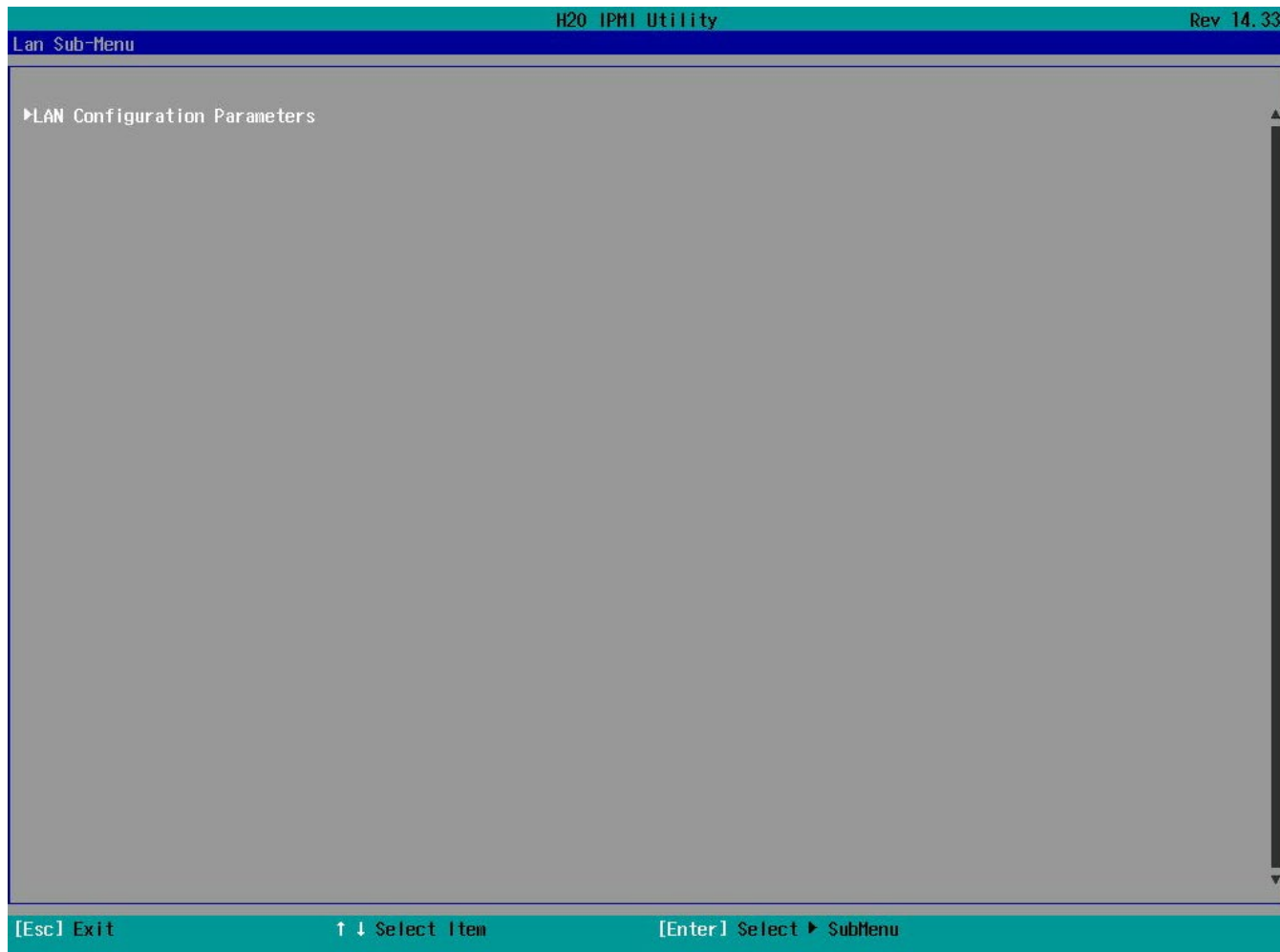


Figure 19: H20 IPMI Utility Screen – Lan Sub-Menu

8. The IP address will be displayed.

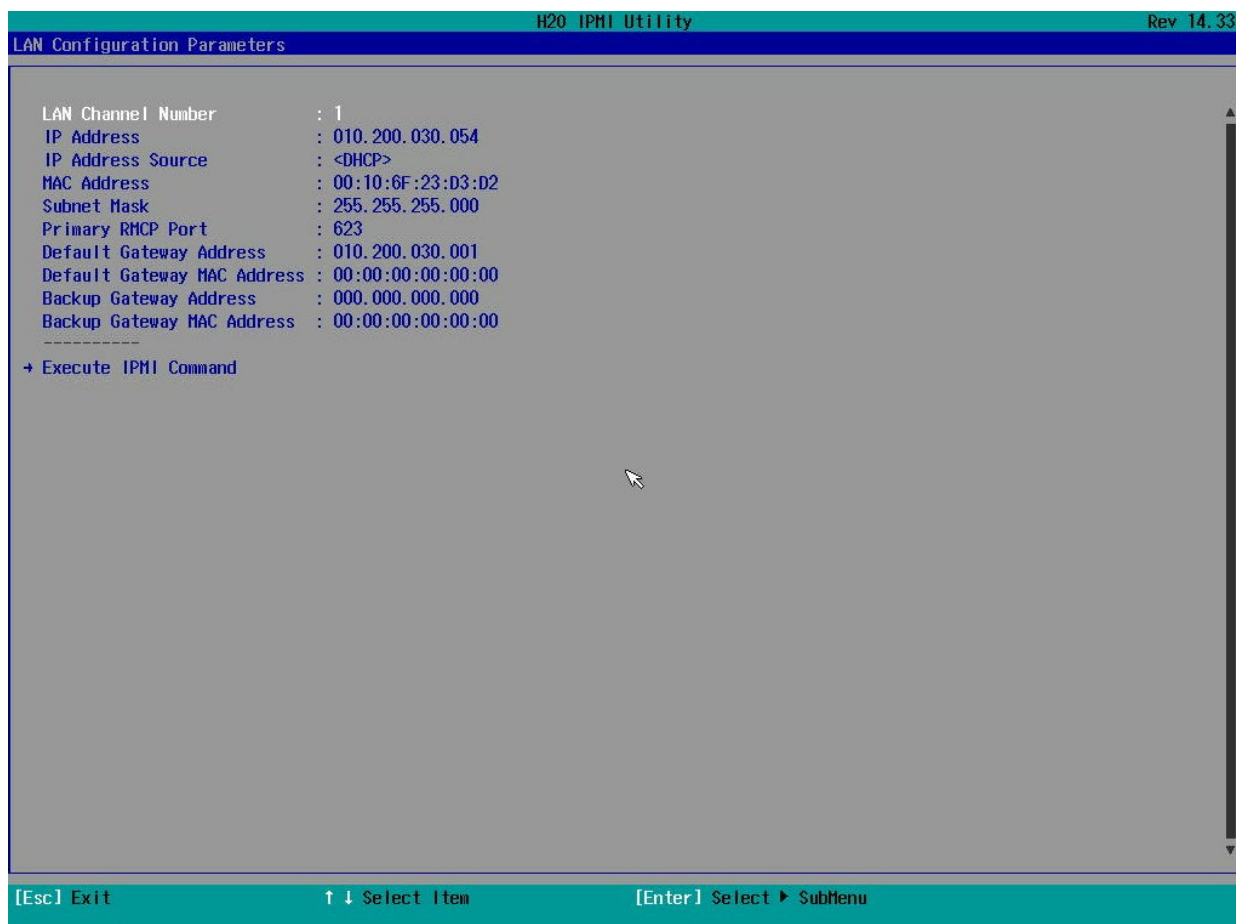


Figure 20: H20 IPMI Utility Screen – LAN Configuration Parameters



Logging into Insyde® Web Interface

1. Type the IP address into the search bar. If the message “Your connection is not private...” is displayed, proceed with the following steps. Skip the steps below if this message is not shown.
 - a. Select Advanced. A drop-down section will open.
 - b. Select Process to (user’s IP address) (unsafe).
 - c. The Insyde® login page will open.
2. The Insyde® login will open. Default login username is root and password is root.

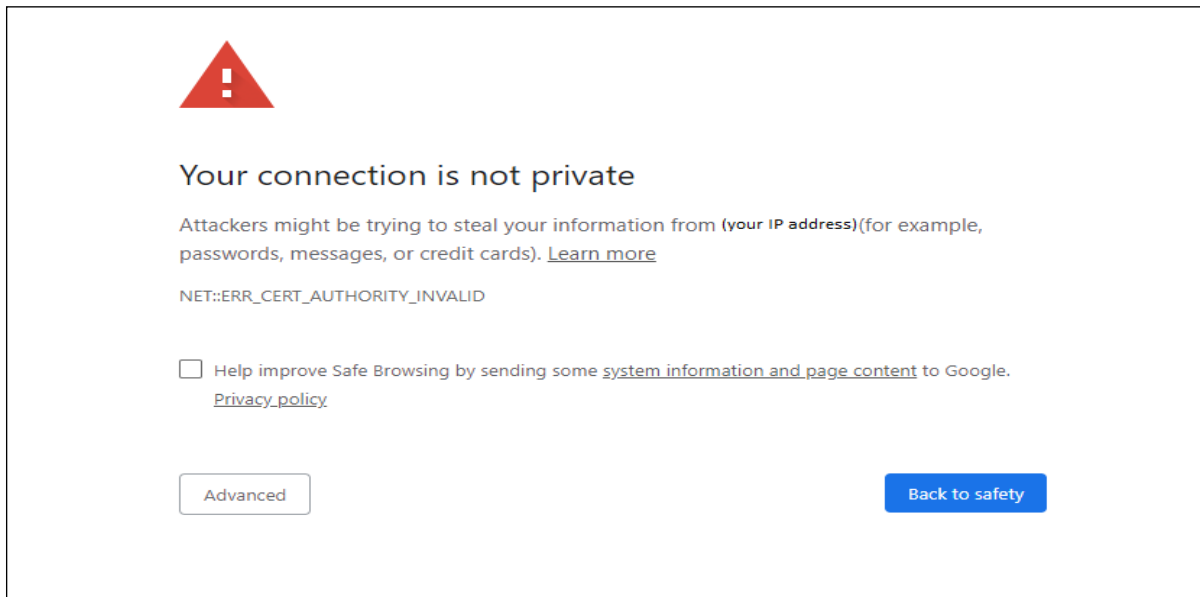


Figure 21: “Your connection is not private,” Warning Screen

Supervyse Web Interface

1. Open a web browser and input the IP address for the system to launch IPMI interface.
2. IP address can be found by executing the command “ipmitool lan print”
3. Default login username is root and password is root.

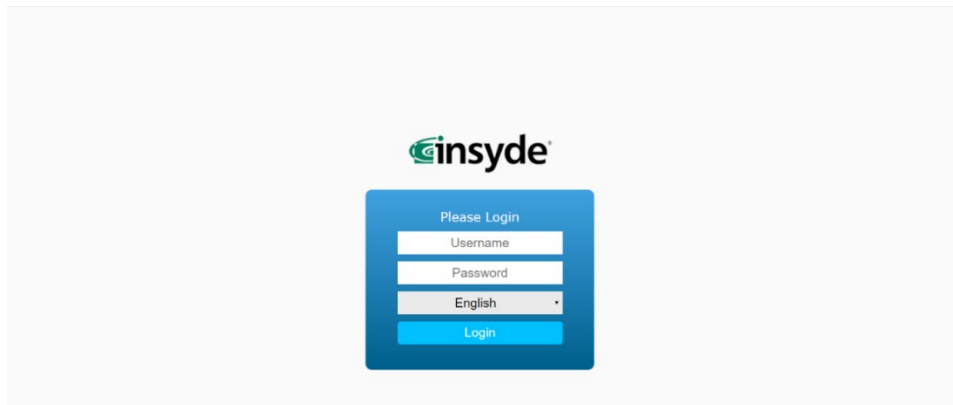


Figure 22: Insyde® Login

4. The first screen after logging in is the dashboard which provides overall information about the system. There are 7 rows to interact with on the web interface namely System, Health, Configuration, Remote Control, Virtual Media, Diagnostics and Miscellaneous.

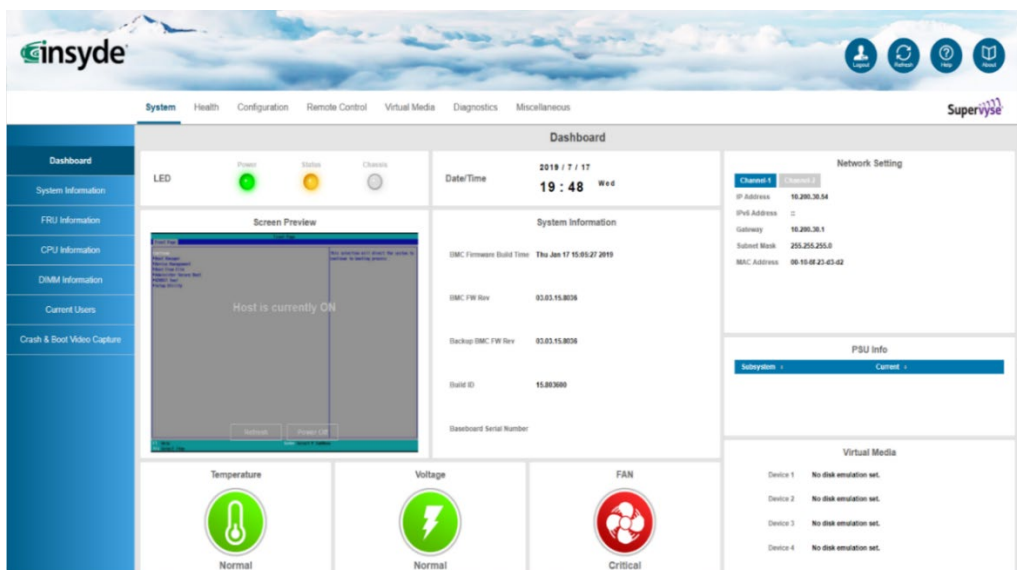


Figure 23: Insyde® Homepage

5. System Information, FRU Information, CPU Information, DIMM Information, Current Users, Crash & Boot Capture can all be found under the System tab.

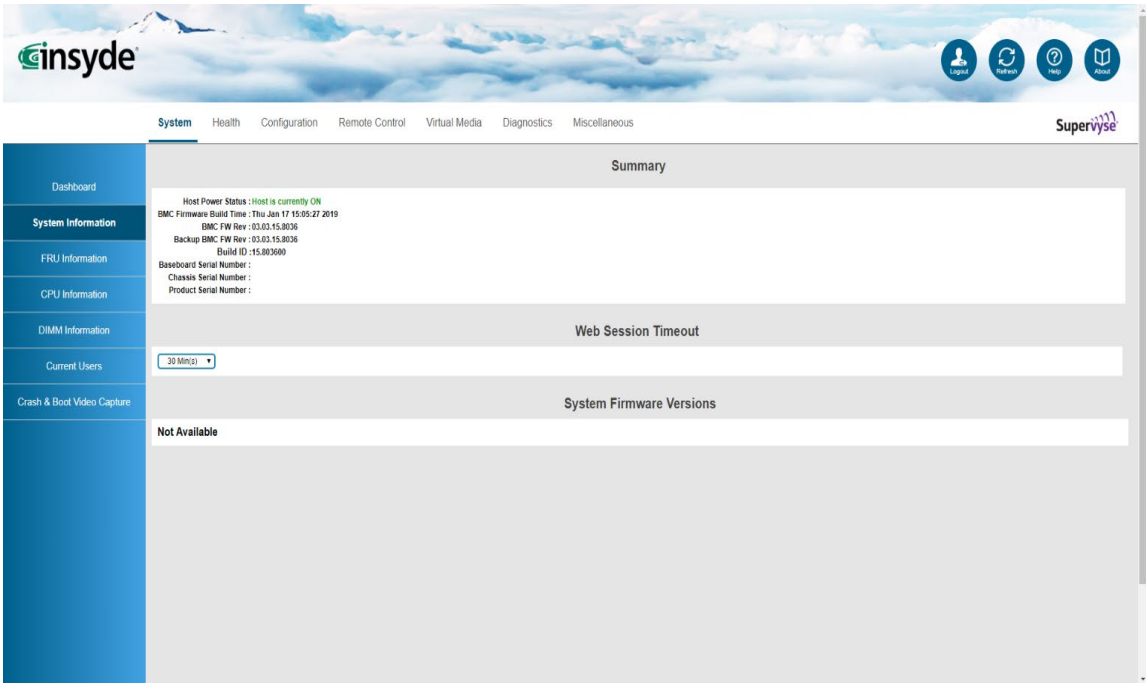


Figure 24: System Page

6. Sensor Readings and Event Logs are found under the Health tab.

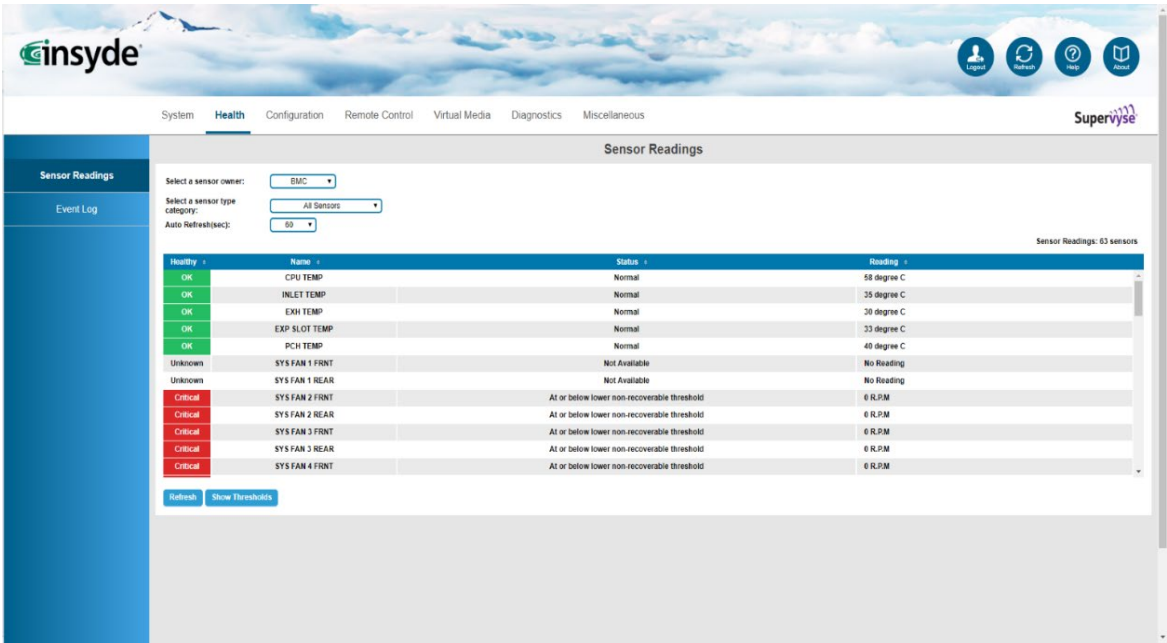


Figure 25: Health Page

7. System Alerts, Networking Settings, Firmware Update, SDR Configuration etc. can be found under Configuration tab.

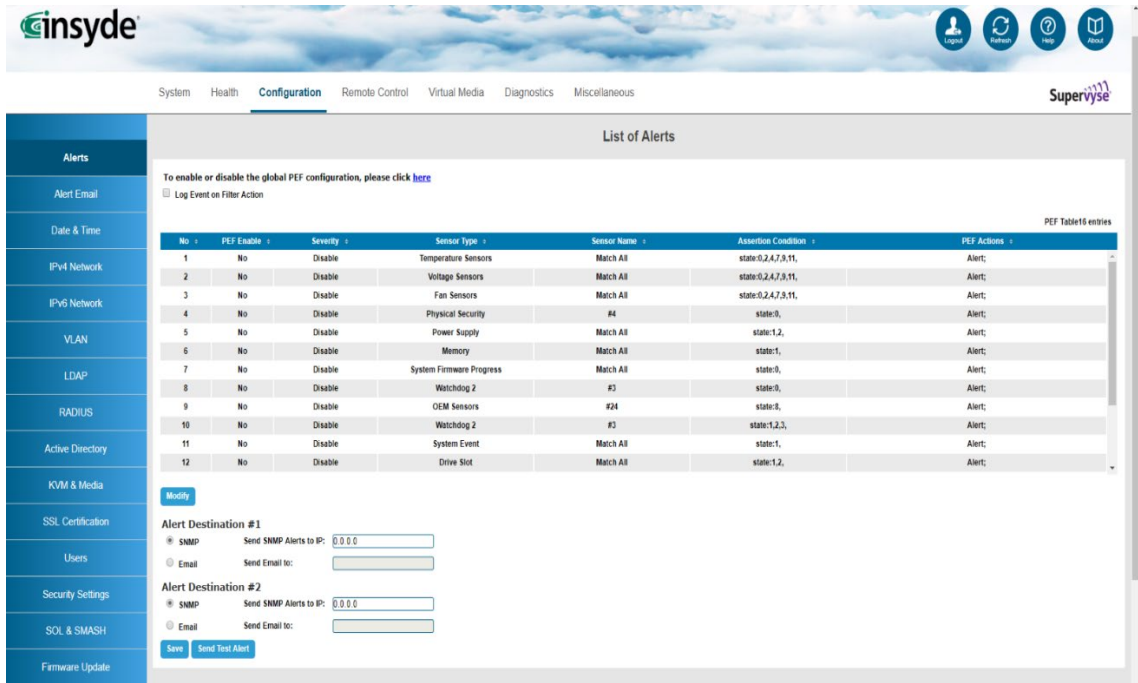


Figure 26: Configuration Page

8. Launching iKVM over HTML5 and managing the server remotely, Server Power Control etc. can be found under Remote Control tab.

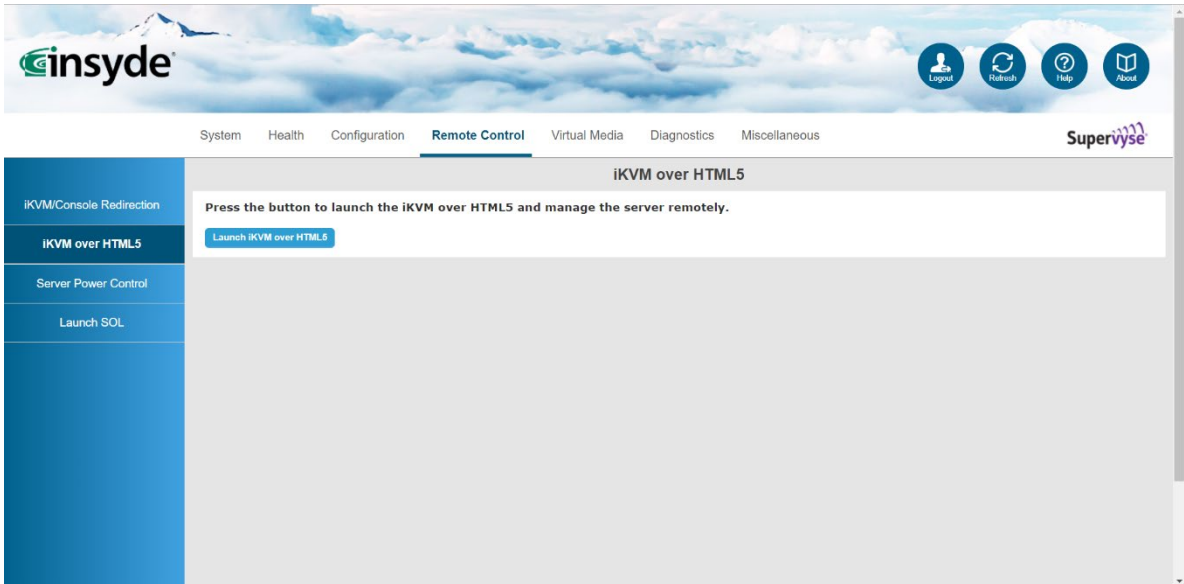


Figure 27: Remote Control – KVM over HTML5 Page

Ethernet Interfaces

The BAM8270 supports four Ethernet interfaces using two physical ports.

- The interfaces are implemented using two Intel® i350 Dual Gigabit Ethernet Controllers.
- Each physical port is shared with the BMC via NC-SI (network controller sideband interface).

All interfaces support 10/100/1000Base-T Ethernet modes and are compliant with the IEEE 802.3 Specification.

The main components of the Ethernet interfaces are:

- ▶ Intel® i350 controllers for 10/100/1000-Mb/s Ethernet.
- ▶ Integrated RJ-45/Magnetics module connectors on the motherboard's I/O bracket for direct connection to the network. The connectors require category 5 (CAT5) unshielded twisted-pair (UTP) 2-pair cables for a 100-Mb/s network connection or category3 (CAT3) or higher UTP 2-pair cables for a 10-Mb/s network connection. Category 5e (CAT5e) or higher UTP 2-pair cables are recommended for a 1000-Mb/s (Gigabit) network connection.
- ▶ MAC addresses on the board are mapped to the interfaces following the table below:

MAC1	I350 Gbit – Top Port
MAC2	I350 Gbit – Bottom Port
MAC3	BMC – Top Port
MAC4	BMC – Bottom Port

- ▶ Link status and activity LEDs on the I/O bracket for status indication (See Ethernet LEDs and Connectors later in this chapter.)

Questions

Please reach out to the Trenton Systems Support Team with any questions at 770-287-3100 or send an email to support@trentonsystems.com.

