

SETUP TASK LIST

To setup the Vess A8120 system, perform these hardware and configuration tasks in order:

- Task 1: Unpack device
- Task 2: Mount Vess A8120 in a standard rack
- Task 3: Install hard disk drives
- Task 4: Management connections
- Task 5: Connect the power and power on system
- Task 6: Login to Windows
- Task 7: Create RAID Volume

TASK 1: UNPACK DEVICE

Vess A8120 Packing List

The Vess A8120 box contains the following items:

- Vess A8120
- 1.5m (4.9 ft) Power cord
- Screws for disk drives (20 pieces for 4 bays)
- Sliding rail assembly for rack mounting

TASK 2: MOUNTING VESS A8120 IN A RACK

The instructions here apply to the all Vess A8120 Series 1U form factor models.



Warnings

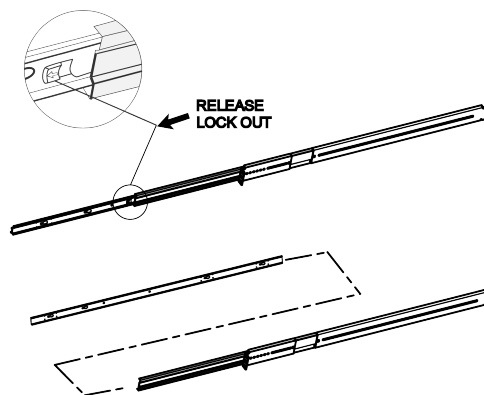
- Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
- Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

The Vess A8120 installs in a 19" equipment rack. Please examine the illustrations in this section to make sure you are using the correct type of rack.

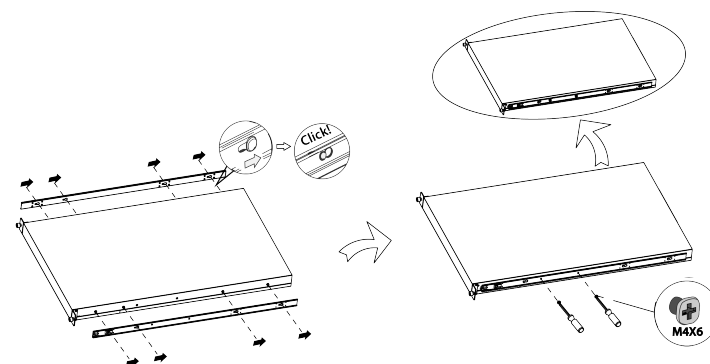
In order to place the system in the rack, first attach the ear brackets to the front of the device. Then install the sliding rail system in the rack. Finally place the device on the sliding rails and secure it to the rack. Use only the screws and fasteners included with the shipment of the sliding rail system, or with the Vess A8120. This procedure is described and illustrated in the sections that follow below.

Follow these steps to install the mounting rails in an equipment rack.

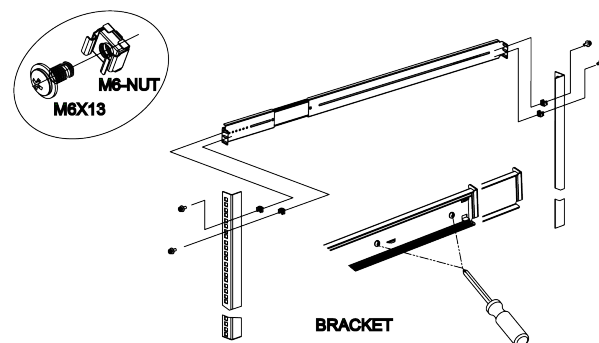
1. For both sliding rail assemblies, release and detach the inner member from the slide.



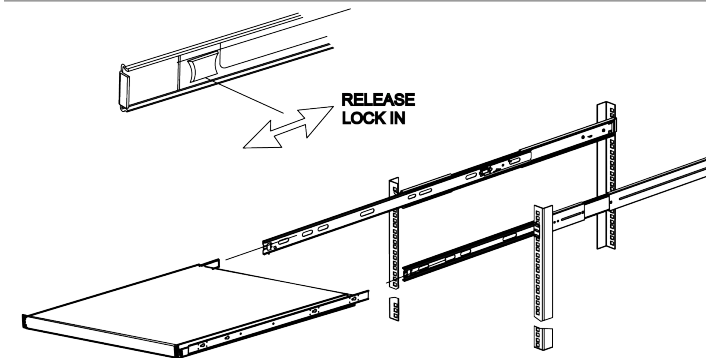
2. Attach the inner member of the sliding rail assembly to each side of the Vess A8120.



3. Fix the outer member of the rail assembly to the rack frame.



4. Carefully insert the Vess A8120 to complete the installation.



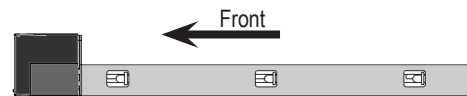
TASK 3: INSTALLING DISK DRIVES

The Vess A8120 system supports:

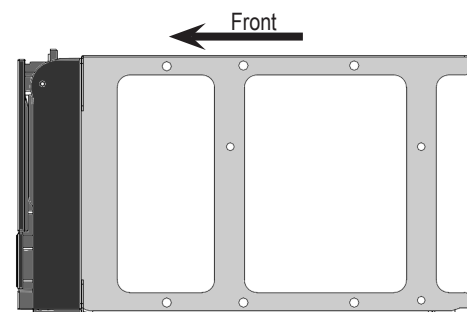
- SATA hard disks
- 3.5-inch hard disk drives

For a list of supported physical drives, download the latest compatibility list from the PROMISE support website.

Empty drive carrier side view



Empty drive carrier top view



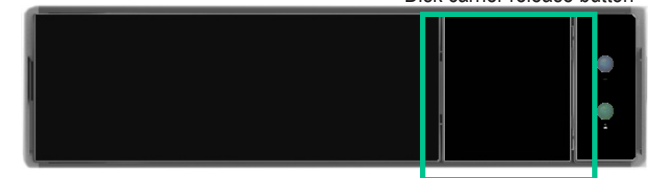
Follow these steps to install the hard disks:

1. Press the drive carrier release button. The handle springs open.
2. Grasp the handle and gently pull the empty drive carrier out of the enclosure.
3. Place the physical drive on a table with the bottom side facing up.
4. Position the drive in the carrier over the physical drive so the mounting holes line up.

Note there are different mounting screw holes for 2.5" drives.

5. Insert the screws through the proper holes in the carrier and into the drive or adapter.
- Install four screws per drive.
- Snug each screw. Be careful not to over tighten.
6. With the drive carrier handle in open position, gently slide the drive carrier into the enclosure.

Drive carrier front view



TASK 4: MANAGEMENT CONNECTION

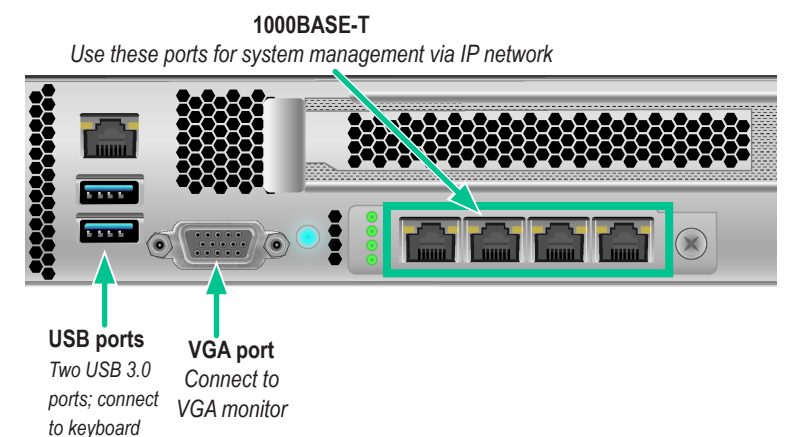
The Vess A8120 can be remotely managed through the IP network. The physical connection for management is provided by connecting to either of the two 1000BASE-T ports on the installed NIC. Alternatively you can attach a monitor to the VGA, and connect a USB keyboard and manage the initial setup configuration via direct connection to the device, using the Command Line Interface. This Quick Start Guide describes only the second option, connecting to the device with a monitor and keyboard. For remote management through the surveillance and data network, please see the Product Manual.

MANAGEMENT PATH - ON SITE KEYBOARD AND MONITOR

Use a USB keyboard and a VGA monitor to establish a direct out-of-band connection to the management software. The VGA and USB ports are located on the back of the Vess A8120. Connect a VGA monitor to the appropriate video monitor port, and connect a USB keyboard to any USB port on the rear panel.

Management via direct attached keyboard and monitor is done with the command line interface (CLI). Please see the Product Manual for a list of commands, use and login information.

Vess A8120 rear monitor connections/USB ports



MANAGEMENT PATH - NETWORK CONNECTION

The Gigabit Ethernet RJ-45 ports on the rear panel for the network connection used for device administrator. These ports must be physically and logically located in the IP subnet used by the system administrator.

To establish the management path:

1. Attach one end of an Ethernet cable to the network connector or standard NIC in the Host PC.
Attach the other end of the Ethernet cable to one of the ports on the standard network switch on the subnet used for system administration.
2. Attach one end of an Ethernet cable to one of the ports on the same network switch or subnet used for system administration.
Attach the other end of the Ethernet cable to one of the 1000BASE-T ports on the back of the Vess A8120 .
If you have multiple Vess A8120 systems, Host PCs or Servers, repeat steps 1 and 2 as required.
3. Follow the instructions for connecting to, and configuring the basic settings of the Vess A8120.

Please note that you do not need to establish a network connection for the initial setup. The web-based management interface is accessible using a keyboard and monitor directly attached to the device. See the next section for instructions.

TASK 5: CONNECTING THE POWER

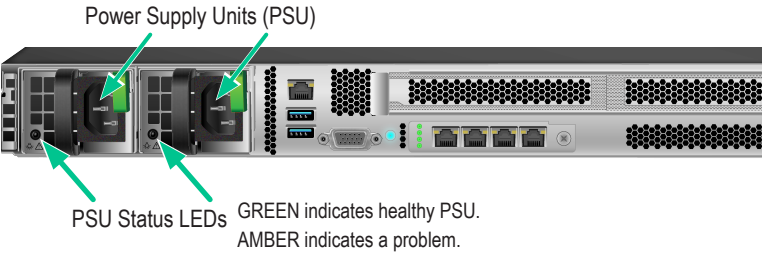
Insert one power cable into the power receptacle for the power supply and connect the PSU to a suitable power source.

POWER ON VESS A8120 SYSTEM

With the power supplies connected, the system can now be powered on.

To power on the Vess A8120 system , press the Power button on the front panel. Observe the LEDs on the front panel, and on the back panel, to make certain the boot up proceeds smoothly and the system is connected to the network.

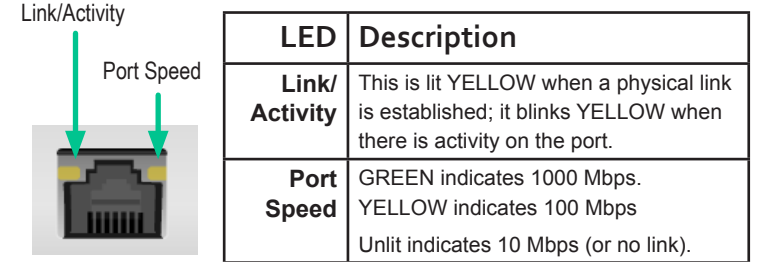
Swappable power supplies on rear panel



Drive carrier LEDs



Management network port LEDs



FRONT PANEL LEDs

When boot-up is finished, check the LEDs on the front panel to make sure the system is functioning properly. See the table below.



No.	LED	Description
1	ID	This will be lit BLUE when the system identification feature is active. Otherwise is remains unlit.
2	Power	Lights BLUE to indicate the system is powered on.
3	Network Link/Activity	One LED for each 1000BASE-T LAN port. These light GREEN to indicate a valid link. A blinking GREEN LED indicates activity on the port.

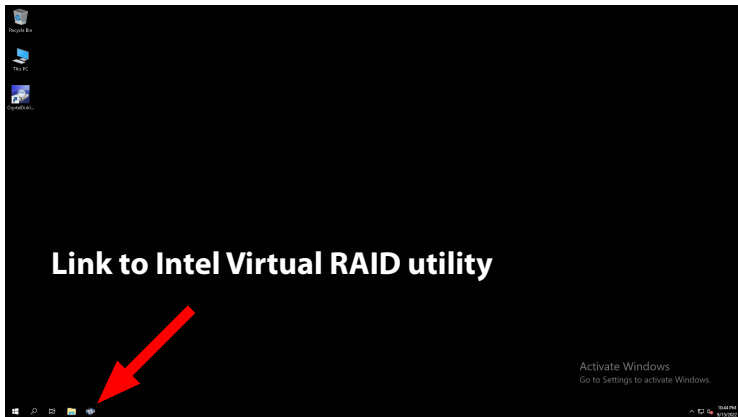
TASK 6: ACCESS OPERATING SYSTEM GUI

To access the installed operating system graphical user interface on the Vess A8120, insert a USB keyboard into any USB port, and connect a monitor using the VGA port.

LOG IN TO WINDOWS

For Windows installations, once the system has booted up it will be necessary to choose various options to complete the OS setup. You will be prompted to select a default language and other user interface preferences. Follow the instructions on screen to complete your preferences selection and to establish a user name and password for the administrator. After completing these final tasks, the Windows desktop appears.

Windows desktop

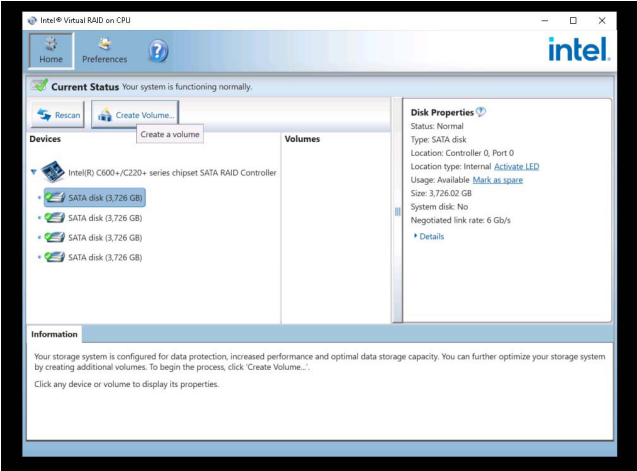


TASK 7: CREATE RAID VOLUME

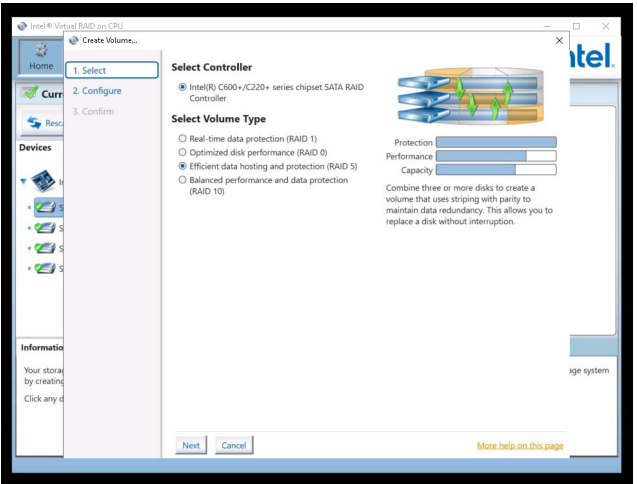
Use Intel Virtual RAID to create a RAID volume using the installed HDDs.

Determine what RAID type you will use, then launch the Intel Virtual RAID utility to begin the procedure by clicking on the utility icon in the system tray (see desktop illustration).

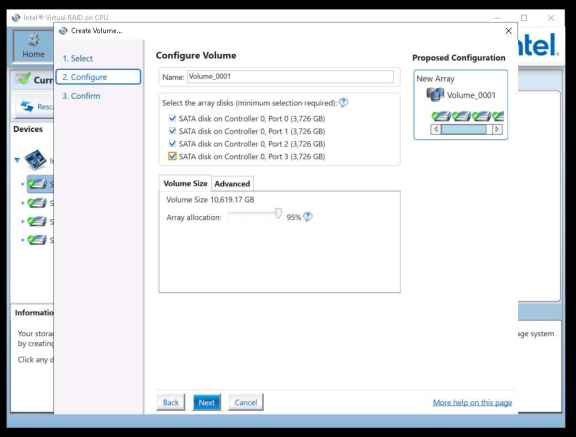
1. The four HDD appear listed in the main panel of the user interface. You can choose 2, 3, or all 4 HDD for the RAID volume. In this example we use all the HDD to create a RAID5 volume.
Click on **Create Volume** to begin. A new menu appears.



2. The controller for the virtual RAID is the Intel RAID controller, this is selected by default.
3. Select the Volume Type (RAID type) to be used for this new volume. In our example we are using RAID5.Click **Next** to proceed.
4. To configure the volume, type a Name and choose the HDD to be used. In this example all four HDD are selected.

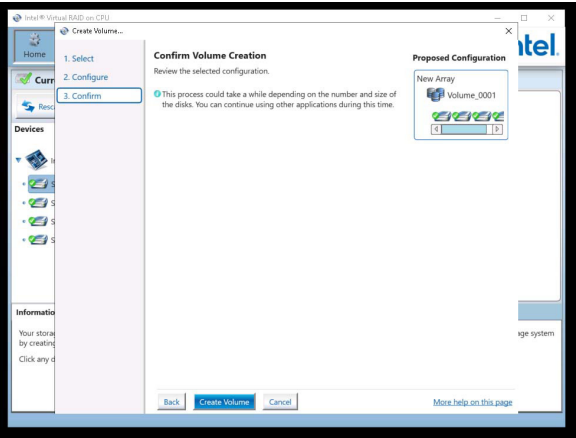


5. Adjust the size of the array using the sliding selector. This determines the maximum capacity available for use on the storage array. For this example we use the default allocation of 95%.
6. To change data stripe size used, click the **Advanced** tab. You can also use this menu to enable a write-back cache for



the volume; to initialize the volume, or to toggle on/off **Close Write Hole** (off by default). Click **Next** to proceed.

7. To create the new volume, click on **Create Volume** to initiate the configuration process. After a few seconds, a pop-up menu appears explaining the volume is now created, click **OK** if to close the menu.



8. The new volume appears listed as a SATA Array in the menu. The volume creation procedure is completed.

