

# Intel® VROC Upgrade Key

## Installation Guide

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# 1 Important

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**IMPORTANT:** Your Intel server board must be running both the latest Intel® Server Board BIOS and Intel® Rapid Storage Technology enterprise (RSTe) driver.

## Important Safety Instructions

Read all caution and safety statements in this document before performing any of the instructions. See Intel® Server Boards and Server Chassis Safety Information example at <http://www.intel.com/content/www/us/en/support/boards-and-kits/000007675.html?wapkw=safety>

## Wichtige Sicherheitshinweise

Lesen Sie zunächst sämtliche Warn- und Sicherheitshinweise in diesem Dokument, bevor Sie eine der Anweisungen ausführen. Beachten Sie hierzu auch die Sicherheitshinweise zu Intel®-Serverplatinen und -Servergehäusen unter <http://www.intel.com/content/www/us/en/support/boards-and-kits/000007675.html?wapkw=safety>

## 重要安全指导

在执行任何指令之前，请阅读本文档中的所有注意事项及安全声明。和/或 <http://www.intel.com/content/www/us/en/support/boards-and-kits/000007675.html?wapkw=safety> 上的 Intel® Server Boards and Server Chassis Safety Information（《Intel 服务器主板与服务器机箱安全信息》）。

## Important Safety Instructions Consignes de sécurité

Lisez attention toutes les consignes de sécurité et les mises en garde indiquées dans ce document avant de suivre toute instruction. Consultez Intel® Server Boards and Server Chassis Safety Information rendez-vous sur le site <http://www.intel.com/content/www/us/en/support/boards-and-kits/000007675.html?wapkw=safety>

## Instrucciones de seguridad importantes

Lea todas las declaraciones de seguridad y precaución de este documento antes de realizar cualquiera de las instrucciones. Vea Intel® Server Boards and Server Chassis Safety Information en <http://www.intel.com/content/www/us/en/support/boards-and-kits/000007675.html?wapkw=safety>



## 2 About Intel® VROC Upgrade Keys

Intel VROC Upgrade Keys are used to enable different RAID features on systems that support Intel VROC. There are two types of Intel VROC Upgrade Keys available.

**Table 1: Intel VROC Upgrade Key Differentiations**

Item	Product Code	Color	On-Board VMD Capable Controller
1	No Key (Default)	NA	Intel® VROC Pass-through, RAID0 for Intel® SSD DC P3608 Series
2	VROCSTANDMOD	Black	Intel® VROC Standard, RAID0,1 and 10
3	VROCPREMMOD	Red	Intel® VROC Premium, RAID0,1,5,10 with RAID Write Hole Closure
4	VROCISSDMOD	Light Green	Intel® SSD only, RAID0,1,5,10 with RAID Write Hole closure

## 3 Installing the Hardware

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### 3.1 Preparing the Server

- Observe all safety and ESD precautions at the beginning of this guide and in the documentation for your server board and chassis.
- If your server system is running, power off all peripheral devices attached to it, power down the server, and disconnect the AC power cord from the server.
- Remove the chassis cover. See your server chassis documentation for instructions.

### 3.2 Installing the Intel® VROC Upgrade Key

1. Carefully remove the Intel VROC Upgrade Key from its packaging.
2. Locate the SATA RAID or Intel VROC connector on the server board.



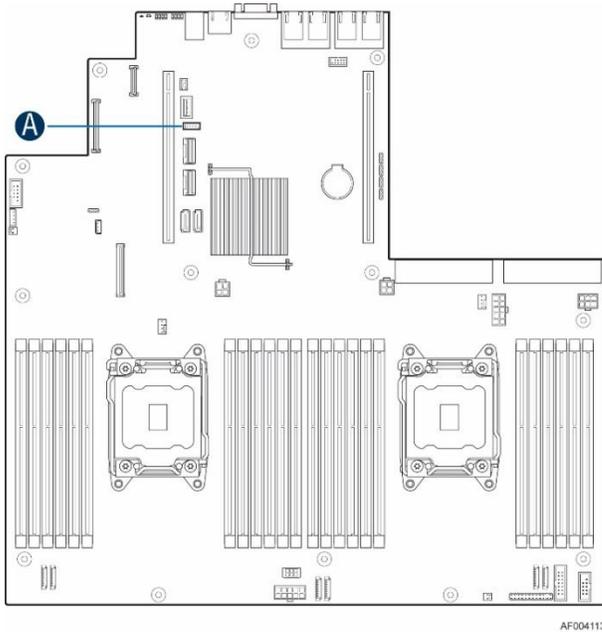
If you are facing the front of your server, the headers are usually located near the SATA ports on the board.



The connector headers consist of 4 pins. See your server board documentation for the location of the headers.

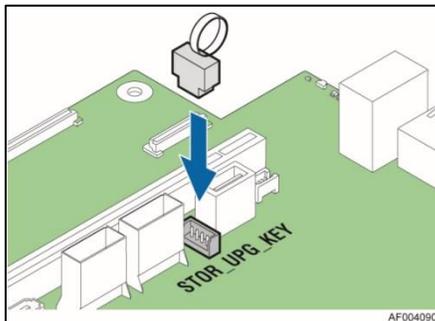
The following figure shows an example of the location of the Intel VROC key headers on a typical server motherboard. Letter A shows the location of the Intel VROC key headers. The location of the Key headers on your server board may vary.

**Figure 1: Locating Intel VROC Key Headers on an Intel Server Board**



Carefully pick up the Intel VROC Upgrade Key. Match the key and connector orientation and press down to install.

**Figure 2: Installing Intel VROC Upgrade Key on Server Board Header**



### 3.3 Finishing Up the Hardware

1. Reinstall any components inside of the server chassis that you needed to remove. See your server board or chassis documentation for instructions.
2. Install the server chassis cover and connect the AC power supply.



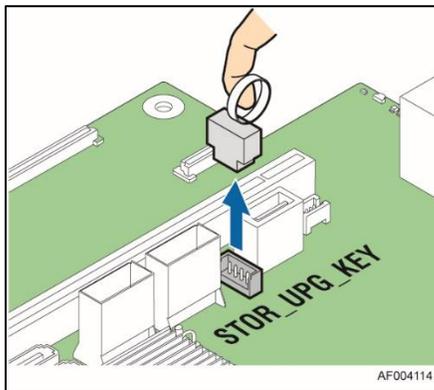
3. Watch the boot screen during POST for the Ctrl + <letter> key combination to press. Press this control key combination to enter the Intel® RSTe BIOS Console setup utility and configure your Raid volumes.

### 3.4 Removing the Intel® VROC Upgrade Key

Use the following instructions if you need to remove your Intel VROC Upgrade Key.

1. Follow the instructions in Preparing the Server on page 5.
2. Hold the pull-ring with the finger, and then **carefully pull** the Intel VROC upgrade key from the server board header as shown in the following figure.

**Figure 3: Removing Intel® VROC Upgrade Key from Server Board Header**



3. Follow the instructions for Finishing Up the Hardware in the section above.