**Appendix C**

This appendix is to provide short definition to terms used in the Hardware specifications section. A link is provided in case further explanation is needed.

**ECC** (Error Correction Code) - it protects against data corruption by automatically detecting and correcting memory errors. Commonly used in servers for data security measures. More at:

<https://www.pugetsystems.com/labs/articles/Advantages-of-ECC-Memory-520/>

and

<https://www.servethehome.com/unbuffered-registered-ecc-memory-difference-ecc-udimms-rdimms/>

**RAID** ( Redundant Array of Independent Disks ) - approach used to enhance performance and or data protection. There are several ways that RAID can be implemented. Fo more details see:

<https://rog.asus.com/articles/maximus-motherboards/what-is-raid-setup-guide/>

**PLP** (Power loss protection) - a feature of solid-state driver (SDD - storage device) that protects data against sudden power loss. Download pdf in the link below for further information:

<https://www.google.co.nz/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwi8v-HqnZ7VAhWMTLwKHQ3oBqIQFggmMAA&url=http%3A%2F%2Fwww.samsung.com%2Fsemiconductor%2Fminisite%2Fssd%2Fdownloads%2Fdocument%2FSamsung_SSD_845DC_05_Power_loss_protection_PLP.pdf&usg=AFQjCNGHt23l1fqN-UcmbUi1RUt5bVfY4A>

**CacheVault Supercapacitor** - helps avoiding the possibility of data loss or corruption during a power or server failure. It is an extra security measure for the system. Due to RAID approach plus the PLP feature of SSD cards, we believe it is not a critical. See full definition at the vendor website bellow:

<https://www.pbtech.co.nz/product/BATSPMCVM02/Supermicro-CacheVault-Supercapacitor-for-Cached-Da>

**Barebone -** in this context, the barebone is cabinet and motherboard of the server. By definition, a barebones PC is a computer that has minimal components. A typical barebones system includes a case, motherboard, CPU, hard drive, RAM, and power supply.

**UPS** (Uninterruptible Power Supply) - is an electrical apparatus that provides emergency power to a load when the input power source or mains power fails. More information at:

[*https://en.wikipedia.org/wiki/Uninterruptible\_power\_supply*](https://en.wikipedia.org/wiki/Uninterruptible_power_supply)