1. Q. What are three key benefits of the SM825 Data Center Edition Solid State Drive from Samsung?
   A: Sustained Write Performance – Over 10,000 IOPs on small block writes versus under 1,000 IOPs on “value SSDs”.
   
   Power-loss protection – If server and drive lose power unexpectedly, Samsung’s technology prevents any data in cache from being lost.
   
   Extended write-endurance – Offers over 100 times over a standard “value SSD.”

2. Q: What applications are the SM825 SSD best suited for?
   A: The Samsung SM825 SSD is best suited for any application, it is “workload agnostic”, eliminating the need to design in and is designed to withstand any environment. These SSDs handle large write-intensive workloads, such as online transaction processing (OLTP), virtualization, and logging, etc.

3. Q. What is the lifecycle of the drive?
   A: For those that like to consider PE Cycle of an SSD, the standard “value SSDs” typically offer 3,000-5,000 PE Cycles. The Samsung SM825 Data Center Edition provides 30,000 PE Cycles (over 10 times). However, a more accurate measure of an SSDs lifecycle is Terabytes Written (TBW). This measurement accounts not only accounts for P/E Cycles but also looks at the application workload and its effect on the life of the drive. Standard “value SSDs” have a TBW upwards of 60 TBW for Random Writes. Conversely, the Samsung SM825 Data Center Edition SSD specially has 7,000 TBW (over 100 times).

4. Q. What is the price of the SM825 Data Center Edition SSD?
   A: The 100GB is $499 and 200GB is $1099.

5. Q. What is the difference between SM825 and other standard “value SSDs”?
   A: When selecting an SSD, the type of NAND Flash that is inside is a major thing to pay identify. Most SSDs on the market are based on standard Multi-Level Cell technology. These MLC type of drives have less endurance and are not specified to support writing as much data to them over their useful life. However, the SM825 is based of Enterprise-class MLC, offering over 100 times the amount of data you can write to it over its lifetime. As an example, on a traditional 4K random write workload on a 100-128GB SSD, traditional MLC would offer around 15 TBW (Terabytes written.
over the life of the drive). Selecting the Samsung E-MLC SM825 would provide you up to 1,750TBW - a better value indeed.

6. Q. What is the warranty of the drive?
   "Enterprise value, read intensive and slim SSD Class Drives are not eligible for purchase of extended warranty coverage beyond 3 years."

7. Q. What additional benchmarks or test results are available?
   A: http://www.storagereview.com/samsung_ssd_sm825_enterprise_ssd_review


8. Q. What’s the value of the SM825 over standard “value SSDs?”
   A: Unmatched sustained write performance, power loss protection, and extended write-endurance.

9. Q. Where can I find more details on the SM825 SSD?
   A: For more info, visit: www.samsung.com/dellpromo