



# Product Datasheet

## 480GB Hot Plug Enterprise SSD 2.5in SATA Mixed Work Load



- **Product Code:** CPQ-480EMLCMWL-S7
- **Product EAN:** 5056006106081
- **Warranty:** 5 Year Advanced

Origin Storage is a global supplier of IT storage solutions and components. The company's product portfolio includes hard disk drive solutions, RAID solutions and OEM parts. Origin Storage prides itself on superior customer service, competitive pricing and knowledgeable sales staff. The company is unique, not only in its product range but also in its philosophy, which adds up to a professional purchasing experience. Origin Storage - the ideal partner for all your storage management needs.

# Technical Specifications

## Weight & Dimensions

<b>Height:</b>	7 mm
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## Power

<b>Operating Voltage:</b>	5 V
<b>Power Consumption (read):</b>	2.3 W
<b>Power Consumption (write):</b>	2.8 W
<b>Power Consumption (average):</b>	2.8 W
<b>Power Consumption (idle):</b>	1.3 W

## Operational Conditions

<b>Operating Temperature (T-T):</b>	0 - 70 °C
<b>Operating Vibration:</b>	20 G
<b>Non-operating Vibration:</b>	20 G
<b>Operating Shock:</b>	1500 G
<b>Non-operating Shock:</b>	1500 G

## Packaging Data

<b>Downloadable Software:</b>	Samsung SSD DC Toolkit
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## Other Features

<b>Internal:</b>	Yes
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## Features

<b>SSD Capacity:</b>	480 GB
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<b>SSD Form Factor:</b>	2.5"
<b>Interface:</b>	Serial ATA
<b>NVMe:</b>	No
<b>Memory Type:</b>	MLC
<b>Component For:</b>	Server/workstation
<b>Hardware Encryption:</b>	Yes
<b>NAND Flash Type:</b>	MLC (Multi Level Cell)
<b>Security Algorithms:</b>	256-bit AES
<b>Data Transfer Rate:</b>	6 Gbit/s
<b>Read Speed:</b>	510 MB/s
<b>Write Speed:</b>	485 MB/s
<b>Random Read (4KB):</b>	95000 IOPS
<b>Random Write (4KB):</b>	19000 IOPS
<b>Read Latency:</b>	110 $\mu$ s
<b>Write Latency:</b>	110 $\mu$ s
<b>S.M.A.R.T. Support:</b>	Yes
<b>TRIM Support:</b>	No
<b>Hot-swap:</b>	Yes
<b>Mean Time Between Failures (MTBF):</b>	2000000 h
<b>Active Garbage Collection:</b>	Yes

## Logistics Data

<b>Harmonized System (HS) Code:</b>	84717070
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## Origin Storage Limited

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