



# HP P800 DataSheet



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## 1.0 Overview

HP P800 with the high performance will give the customers special experience, with 4 capacity sizes: 256GB 、 512GB、 1TB and 2TB.

With the Thunderbolt 3 Type-C interface, the sequential read speed up to 2400MB/s and sequential write speed up to 1200MB/s, can be connected with iMac, iBook, Thinkpad. All-in-one computers etc which have Thunderbolt Type-C interface

As compared to standard portable SSD, HP P800 Series offers these key features:

- High performance
- Pretty cosmetic
- Portable
- High reliability
- Enhanced ruggedness
- High data Integrity and Security



## 2.0 Performance Detail

Capacity \ Performance	256GB	512GB	1TB	2TB
Random 4 KB reads	160K IOPS	260K IOPS	290K IOPS	310K IOPS
Random 4 KB writes	170 K IOPS	180K IOPS	190K IOPS	190K IOPS
Sustained sequential read	2400M/s	2400M/s	2400M/s	2400M/s
Sustained sequential write	1200M/s	1200M/s	1200M/s	1200M/s

## 3.0. Power Consumption

Idle: 0.8w

Average: 5.2w

Maximum: 6.5w



## 4.0 Order Information

Country/Region	PN	Capacity
APJ	3SS19AA#UUF	256GB
	3SS20AA#UUF	512GB
	3SS21AA#UUF	1TB
	4ND72AA#UUF	2TB
NA	3SS19AA#ABC	256GB
	3SS20AA#ABC	512GB
	3SS21AA#ABC	1TB
	4ND72AA#ABC	2TB
EURO	3SS19AA#ABB	256GB
	3SS20AA#ABB	512GB
	3SS21AA#ABB	1TB
	4ND72AA#ABB	2TB
LA	3SS19AA#ABL	256GB
	3SS20AA#ABL	512GB
	3SS21AA#ABL	1TB
	4ND72AA#ABL	2TB



## 5.0 Environmental Conditions

Temperature	Range
Ambient Temperature	
Operating	0 to 45 °C
Non-operating	-40 to 85 °C
Temperature Gradient(1)	
Operating	20 (Typical) °C/hr
Non-operating	30 (Typical) °C/hr
Humidity	
Operating	5 - 95 %
Non-operating	5 - 95 %
Shock, Vibration, Acoustics	Range
Shock(2)	
Operating	100 G/6 msec
Non-operating	100 G/6 msec
Vibration(3)	
Operating	3.1 GRMS (2-500 Hz)
Non-operating	3.1 GRMS (2-500 Hz)

### Notes:

(1). Temperature gradient measured without condensation.

(2). Shock specifications assume the product is mounted securely with the input vibration applied to the drive-mounting screws. Stimulus may be applied in the X, Y or Z axis. Shock specification is measured using root mean square (RMS) value.

(3). Vibration specifications assume the product is mounted securely with the input vibration applied to the drive-mounting screws. Stimulus may be applied in the X, Y or Z axis. The measured specification is in root mean squared form. Vibration specification is measured using RMS value.



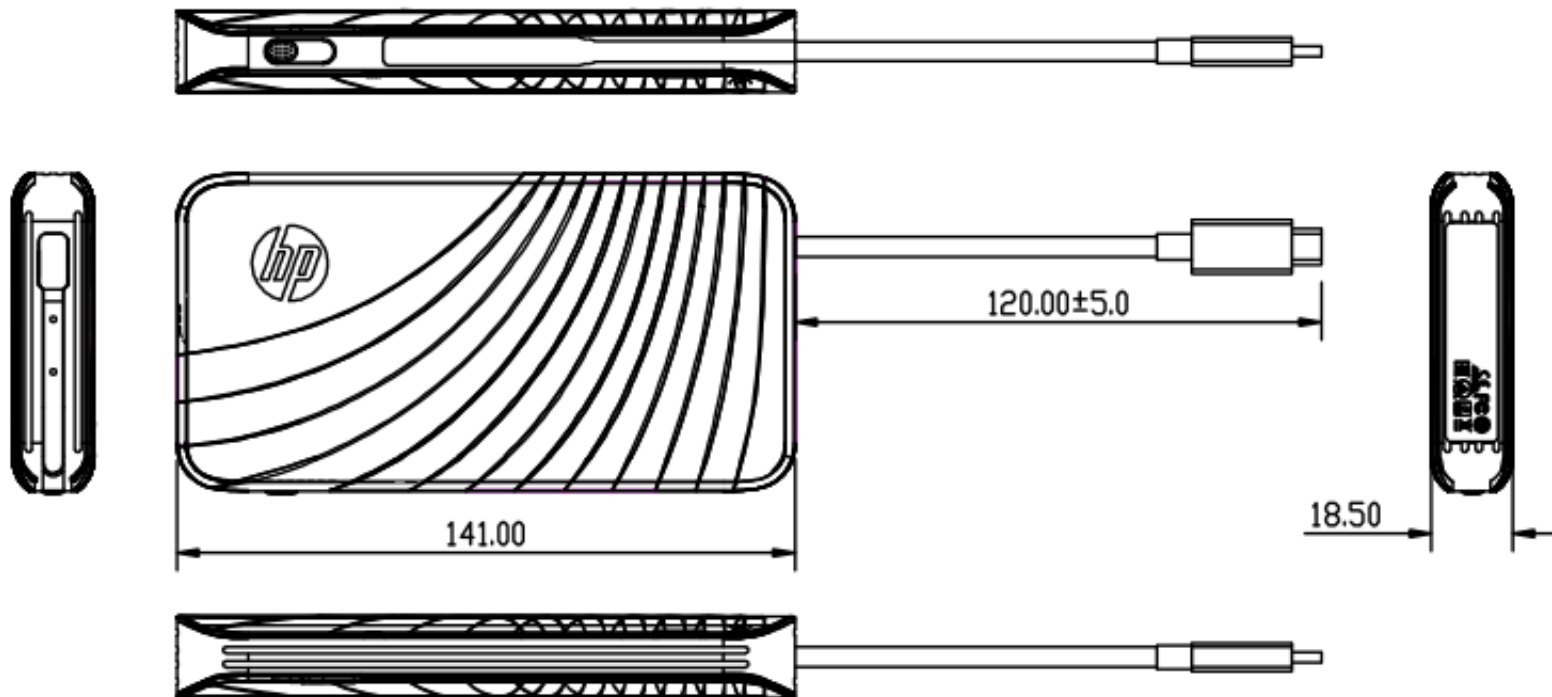
## 6.0 Reliability Specifications

Parameter	Value
<p>Mean Time Between Failure (MTBF)</p> <p>Mean time between failures (MTBFs) for the P800 can be predicted based on the component reliability data using the methods referenced in the Telcordia SR-332 reliability prediction procedures for electronic equipment.</p>	2,000,000 hours
<p>Minimum Useful Life</p> <p>HP P800 will have a minimum of three years of useful life under typical client workloads with up to 80% of the full capacity of host writes per day.</p>	3 years



## 7.0 Mechanical Information

Dimension unit: mm

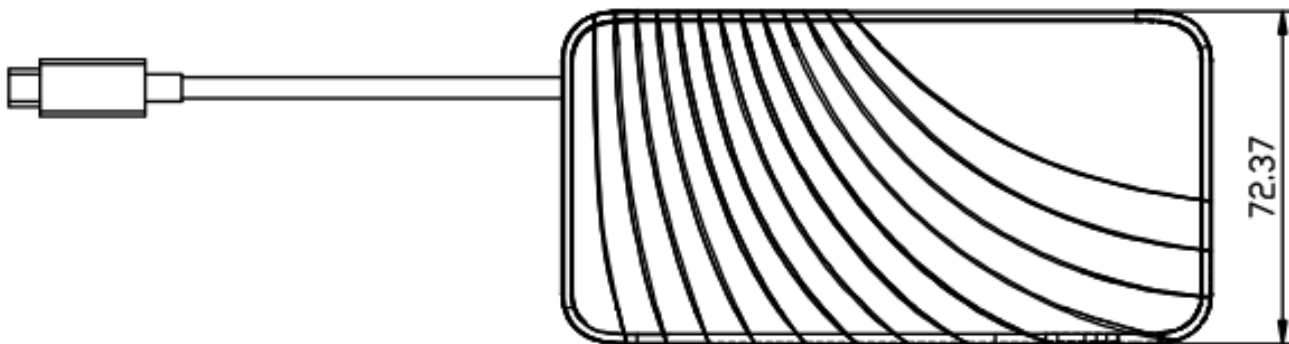
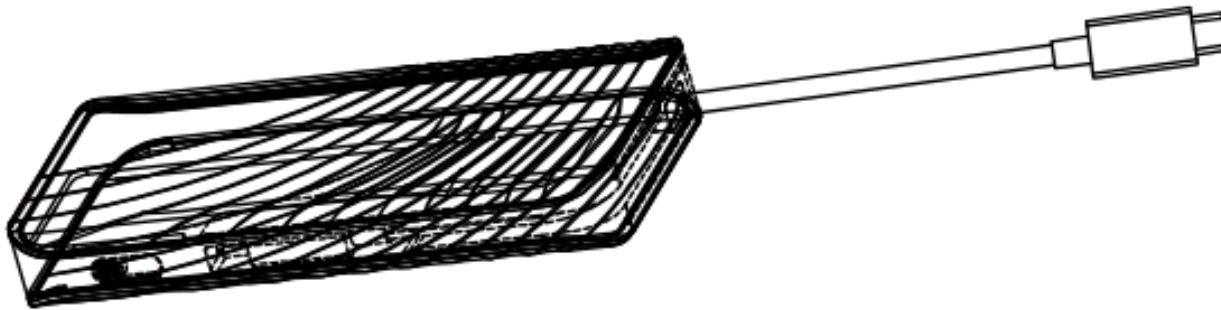






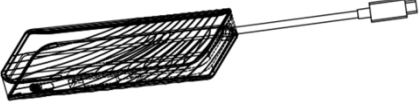
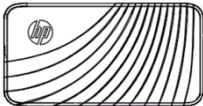

## 7.0 Mechanical Information

Dimension unit: mm





## 7.0 Mechanical Information

Item	Picture	Weight(g)
Device	 A perspective drawing of a rectangular device with a textured surface and a thin cable extending from one end.	210
Case	 A perspective drawing of a rectangular case with a textured surface and a small HP logo in the top left corner.	180
Thunerbolt3 cable	 A perspective drawing of a Thunderbolt 3 cable with connectors on both ends.	12



## 8.0 Certifications and Declarations

Below table describes the Device Certifications supported by HP P800.

Certification	Description
CE Compliant	Indicates conformity with the essential health and safety requirements set out in European Directives Low Voltage Directive and EMC Directive.
UL Certified	Underwriters Laboratories, Inc. Component Recognition UL60950-1.
RoHS Compliant	Restriction of Hazardous Substance Directive
Thunderbolt Compliant	Indicates conformity thunderbolt™ 3 device certification conllateral-Rev 1.05 Intel IBL document:571622 and thunderbolt™ 3 device electrical compliance test specification Intel IBL document: 567664

## 9.0 Revision History

Date	Revision	Description
Mar 2018	V1.0	Initial release
April 2018	V2.0	Revising the operating temperature
May 2018	V3.0	Adding the Device's weight
July 2018	V4.0	Adding 2TB data and Order information(LA)