



HP 512GB PCIe4x4 NVMe M.2 SSD (8C4X6AA)

Overview

The Speed and Space You Need

Upgrade your capacity for uninterrupted, undeterred, unbelievably fast speed and high performance. With the 512 GB PCIe-4x4 NVMe M.2 SSD, upgrade your computers performance to the next level. Make way for all the things you need to get done, at once, with state-of-the-art processing power.

More Storage, More Everything

Expand your laptop's storage for speed, space, and seamless productivity. With the 512 GB[1] PCIe-4x4 NVMe M.2 SSD, you'll have plenty of room to work and play and multitask with ease. Open your workspace for more and start thinking about computer storage less.

Durable. Reliable. Undeniable.

Invest in genuine HP-branded SSD that's tested, certified, and built for HP laptops. Robust and reliable, this product even comes with a 3-year standard limited warranty, just in case.

Powerfully Efficient

Upgrading to 512 GB[1] PCIe-4x4 NVMe M.2 SSD doesn't just expand your RAM, it increases the overall computing power of your HP laptop—opening the floodgates of speed and giving every part more room to think. It's also extremely efficient, so all that power doesn't drain your battery instantly or heat everything up.

Features

Power Through the Day

This speedy solid state drive lets you multitask, toggle, and shift between all your applications quickly. Upgrade now and leave waiting behind.

Easy Installation

Follow the extremely easy visual steps to install your brand new SSD in minutes. You don't need to contact IT or take in your laptop, just follow the instructions and get ready to power up a new level of speed.

HP Quality

Engineered to ensure the maximum quality and reliability that comes with decades of innovation. Get the storage you need.

HP-Tested with a 3 Year Warranty

Stay focused on what matters. Invest in genuine HP-branded SSD that's tested and certified for HP laptops, with a handy 3-year warranty, just in case.

[1] For storage drives, GB = 1 billion bytes. Actual formatted capacity is less.

Specifications

Dimensions (W x D x H)	80 x 22 x 1 mm
Dimensions (W x D x H)	3.15 x 0.87 x 0.4 in
Weight	8 g
Weight	0.02 lb
Package dimensions (W x D x H)	232 x 148 x 10 mm
Package weight	85 g
Sustainable impact specifications	Outside box and corrugated cushions are 100% sustainably sourced and recyclable; 15% post-consumer recycled plastic
Minimum System Requirements	M.2 port
Manufacturer Warranty	HP Three-year limited warranty
What's in the box	Solid state drive; Quick start poster; Warranty card; Screw

Additional specifications

Capacity native	512 GB ^[1]
Cartons per layer	20
Cartons per pallet	100
Compatibility	HP Dragonfly 13.5 inch G4 Notebook PC; HP EliteBook 1040 14 inch G10 Notebook PC; HP Elite x360 1040 14 inch G10 2-in-1 Notebook PC; HP Elite x360 830 13 inch G10 2-in-1 Notebook PC; HP EliteBook 830 13 inch G10 Notebook PC; HP EliteBook 840 14 inch G10 Notebook PC; HP EliteBook 860 16 inch G10 Notebook PC; HP EliteBook 835 13 inch G10 Notebook PC; HP EliteBook 845 14 inch G10 Notebook PC; HP EliteBook 865 16 inch G10 Notebook PC; HP EliteBook 630 13.3 inch G10 Notebook PC; HP EliteBook 650 15.6 inch G10 Notebook PC; HP EliteBook 645 14 inch G10 Notebook PC; HP EliteBook 655 15.6 inch G10 Notebook PC; HP Pro x360 435 13.3 inch G10 Notebook PC
Compatible Operating Systems	Windows 10 , Windows 11
Datasheet photo 1	AHID/169a68ddb6d2fb7da5bf6be0f7f183fa3cea624b
Master carton dimension (imperial)	11.65 x 7.76 x 9.88 in
Master carton dimension (metric)	29.6 x 19.7 x 25.1 cm
Master carton weight (imperial)	3.89 lb
Master carton weight (metric)	1.77 kg
Operating temperature range	32 to 158°F
Operating temperature range	0 to 70°C
Package dimensions (W x D x H)	9.13 x 5.83 x 0.39 in
Package weight	0.19 lb
Pallet (layers)	5
Pallet weight	389.34 lb
Pallet weight	176.6 kg
Products per pallet	1800
Products per pallet layer	360
Storage controller	PCI Express Gen4 x4
Supported drives form factor	M.2 2280
UNSPSC code	43201830

[1] For storage drives, GB = 1 billion bytes. Actual formatted capacity is less.

© Copyright 2025 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Generated by Dynamic Collateral Tool – (ww-en) – Oct 29, 2025 7:35 AM UTC+0000