

Intel Solid-State Drive 670p Series

SSD - encrypted - 1 TB - internal - M.2 2280 - PCIe 3.0 x4 (NVMe) - 256-bit AES - for Next Unit of Computing 12

Group	HDDs
Manufacturer	Intel
Manufacturer item no.	SSDPEKNU010TZX1
EAN/UPC	5032037193566



Description

Intel QLC technology and industry leadership brings the performance and capacity needed for today's PC storage needs, including performance storage and the ability to manage high volumes of data. Now available is the Intel SSD 670p 144-layer QLC-based Client SSD.

Main features

Product Description	Intel Solid-State Drive 670p Series - SSD - 1 TB - PCIe 3.0 x4 (NVMe)
Type	Solid state drive - internal
Capacity	1 TB
Hardware Encryption	Yes
Encryption Algorithm	256-bit AES
NAND Flash Memory Type	3D quad-level cell (QLC)
Form Factor	M.2 2280
Interface	PCIe 3.0 x4 (NVMe)
Features	Smart Response Technology, End-to-end data protection, Rapid Start Technology
Dimensions (WxDxH)	22 mm x 80 mm
Designed For	Next Unit of Computing 12 Pro Kit - NUC12WSHi5, 12 Pro Kit - NUC12WSHi7, 12 Pro Mini PC - NUC12WSKi30YC2

Extended details

General	
Device Type	Solid state drive - internal
Capacity	1 TB
Hardware Encryption	Yes
Encryption Algorithm	256-bit AES
NAND Flash Memory Type	3D quad-level cell (QLC)
Form Factor	M.2 2280
Interface	PCIe 3.0 x4 (NVMe)
Features	Smart Response Technology, End-to-end data protection, Rapid Start Technology
Width	22 mm

Depth	80 mm
Performance	
SSD Endurance	370 TB
Internal Data Rate	3500 MBps (read) / 2500 MBps (write)
4KB Random Read	220000 IOPS
4KB Random Write	330000 IOPS
Reliability	
MTBF	1,600,000 hours
Non-Recoverable Errors	1 per 10 ¹⁵
Expansion & Connectivity	
Interfaces	1 x PCI Express 3.0 x4 (NVMe)
Compatible Bay	M.2 2280
Power	
Power Consumption	80 mW (active) 25 mW (idle)
Miscellaneous	
Package Type	Retail
Manufacturer Warranty	
Service & Support	Limited warranty - 5 years
Environmental Parameters	
Min Operating Temperature	0 °C
Max Operating Temperature	70 °C
Shock Tolerance (operating)	1000 g @ 0.5 ms
Shock Tolerance (non-operating)	1500 g @ 0.5 ms
Vibration Tolerance (operating)	2.17 g @ 5-700 Hz
Vibration Tolerance (non-operating)	3.13 g @ 5-800 Hz
Compatibility Information	
Designed For	Intel Next Unit of Computing 12 Pro Kit - NUC12WSHi5, 12 Pro Kit - NUC12WSHi7, 12 Pro Mini PC - NUC12WSKi30YC2

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