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Western Digital SN520

User Manual

Western Digital PC SN520 NVMe SSD

Model: SN520

Product Overview

The Western Digital PC SN520 is a high-performance 128GB PCIe NVMe M.2 2280 Solid State Drive designed for internal use in compatible laptops and PCs. This SSD offers fast data transfer speeds and reliable storage, making it an ideal upgrade or component for systems requiring efficient storage solutions.

Figure 1: Western Digital PC SN520 128GB NVMe M.2 SSD. The image shows the blue M.2 form factor SSD with its label displaying model number, capacity, serial number, and regulatory marks.

Setup and Installation

Installing the Western Digital PC SN520 NVMe SSD requires careful handling and compatibility verification with your system's motherboard. Ensure your system supports M.2 2280 NVMe PCIe SSDs.

1. **Preparation:**
   - Power off your computer and disconnect all power cables.
   - Open the computer case or laptop chassis. Refer to your computer's manual for specific instructions.

- Ground yourself to discharge any static electricity.

2. **Locate M.2 Slot:**

   Identify the M.2 slot on your motherboard. It is typically labeled "M.2" or "PCIe SSD" and may have a screw stand-off for securing the drive.

3. **Insert the SSD:**

   Gently align the notches on the SSD with the M.2 slot. Insert the SSD at a 30-degree angle until it is fully seated. Do not force the drive.

4. **Secure the SSD:**

   Push the SSD down towards the motherboard and secure it with the small screw provided with your motherboard or computer chassis. Ensure the drive is level and firmly in place.

5. **Close and Power On:**

   Close your computer case or laptop chassis. Reconnect all power cables and peripherals. Power on your computer.

6. **Initialize and Format:**

   Upon first boot, the SSD may need to be initialized and formatted through your operating system's Disk Management utility (Windows) or Disk Utility (macOS) before it can be used for storage or operating system installation.

Operating the SSD

Once installed and formatted, the Western Digital PC SN520 NVMe SSD functions as a standard storage device. Its NVMe interface provides significantly faster read and write speeds compared to traditional SATA SSDs or HDDs, enhancing system responsiveness and application loading times.

- **Operating System Installation:** The SSD can be used as a primary boot drive for your operating system. Refer to your OS installation guide for specific steps.
- **Data Storage:** Use the SSD for storing applications, games, and large files to benefit from its high-speed performance.
- **Driver Management:** Modern operating systems typically include native NVMe drivers. However, for optimal performance, ensure your system's chipset drivers and BIOS/UEFI firmware are up to date. Visit your motherboard or system manufacturer's website for the latest updates.

Maintenance

To ensure the longevity and optimal performance of your Western Digital PC SN520 NVMe SSD, consider the following maintenance practices:

- **TRIM Command:** Ensure the TRIM command is enabled in your operating system. TRIM helps the SSD manage its storage space efficiently, preventing performance degradation over time. Most modern operating systems enable TRIM by default for SSDs.
- **Avoid Defragmentation:** Unlike traditional hard drives, SSDs do not benefit from defragmentation. Defragmenting an SSD can reduce its lifespan by causing unnecessary write cycles.
- **Firmware Updates:** Periodically check the Western Digital support website for firmware updates for your SN520 SSD. Firmware updates can improve performance, stability, and compatibility.
- **Monitor Health:** Use S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) tools to monitor the health and lifespan of your SSD. Many third-party utilities or your operating system's disk tools can provide this information.

- **Maintain Free Space:** Avoid filling the SSD to its maximum capacity. Keeping some free space (typically 10-15%) allows the SSD's wear-leveling algorithms to function effectively, extending its lifespan.

Troubleshooting

If you encounter issues with your Western Digital PC SN520 NVMe SSD, consider the following troubleshooting steps:

- **SSD Not Detected:**
  - Verify the SSD is correctly seated in the M.2 slot.
  - Check your motherboard's BIOS/UEFI settings to ensure the M.2 slot is enabled and configured for NVMe.
  - Ensure your motherboard's chipset drivers are up to date.
  - Test the SSD in another compatible system if possible to rule out a drive issue.
- **Slow Performance:**
  - Confirm that the SSD is running in NVMe PCIe mode (not SATA mode, if applicable to your M.2 slot).
  - Ensure TRIM is enabled.
  - Check for background processes consuming disk resources.
  - Verify that your operating system and drivers are up to date.
  - Ensure the SSD is not excessively full.
- **Operating System Errors/Crashes:**
  - Run a disk check utility (e.g.,chkdsk on Windows) to identify and repair file system errors.
  - Check for SSD firmware updates.
  - If issues persist, consider reinstalling the operating system on the SSD after backing up your data.

For further assistance, refer to the Western Digital support website or contact their customer service.

Specifications

Feature	Detail
Model	Western Digital PC SN520
Storage Capacity	128 GB
Interface	PCIe Gen3 x2 NVMe
Form Factor	M.2 2280
Compatible Devices	Laptop, PC (Desktop)
Rated Voltage	3.3VDC = 1.5A
Color	Blue

Feature	Detail
Item Weight	0.176 ounces
Dimensions	4.99 x 3.78 x 0.02 inches (Package)

Warranty and Support

Western Digital products are backed by a limited warranty. For specific warranty terms and conditions applicable to your PC SN520 NVMe SSD, please refer to the official Western Digital website or the warranty information included with your product packaging.
For technical support, driver downloads, firmware updates, and frequently asked questions, visit the official Western Digital support portal:

Western Digital Support

Additional data recovery plans may be available from third-party providers, such as the 2-Year or 3-Year Data Recovery Plans mentioned by some retailers. These plans are separate from the manufacturer's warranty.

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Related Documents

	Western Digital PC SN810 NVMe SSD - High-Performance PCIe Gen4 Storage Product brief for the Western Digital PC SN810 NVMe SSD, detailing its PCIe Gen4 performance, M.2 2280 form factor, key features, and technical specifications for gaming, content creation, and demanding applications.
	Western Digital PC SN740 NVMe SSD: Performance and Specifications Explore the Western Digital PC SN740 NVMe SSD, featuring PCIe 4.0 technology for enhanced performance, reliability, and efficiency. Details on specifications, features, and order information.

	[WD Black NVMe SSD: High-Performance Storage for Gamers and Creators] Discover the WD Black NVMe SSD, engineered for extreme speed and reliability. Featuring PCIe Gen3 x4 interface, M.2 2280 form factor, and up to 1000GB capacity. Ideal for gaming, video editing, and demanding workloads.
	[How to Install and Set Up a WD Black SN850x SSD] A step-by-step guide on installing and setting up a new WD Black SN850x NVMe SSD on a Windows computer, including physical installation and disk initialization/formatting.

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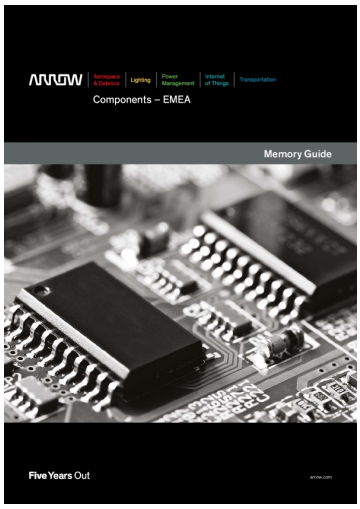

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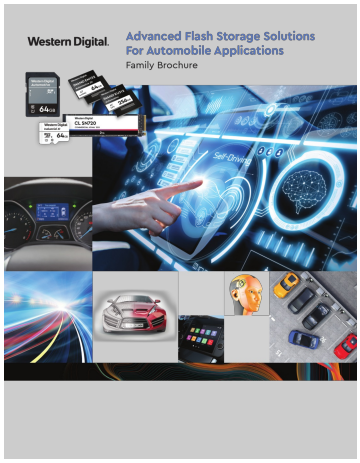

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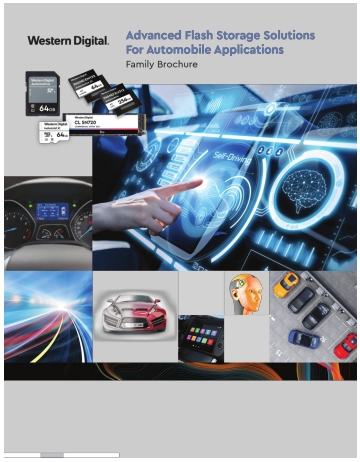

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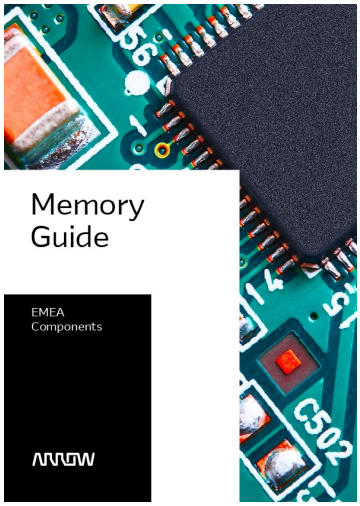

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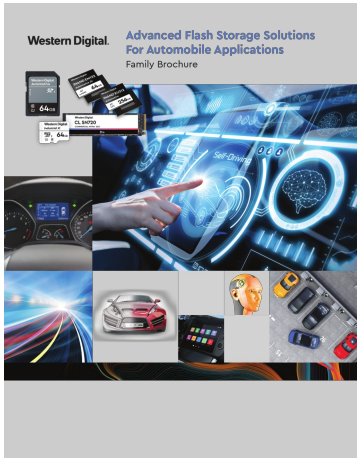

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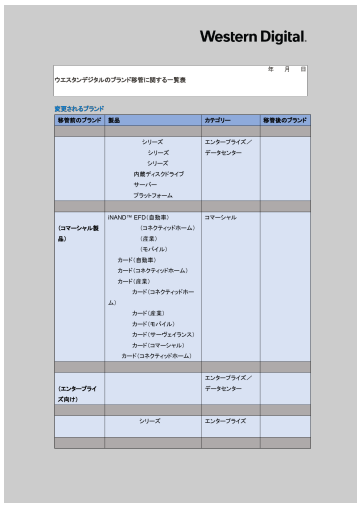

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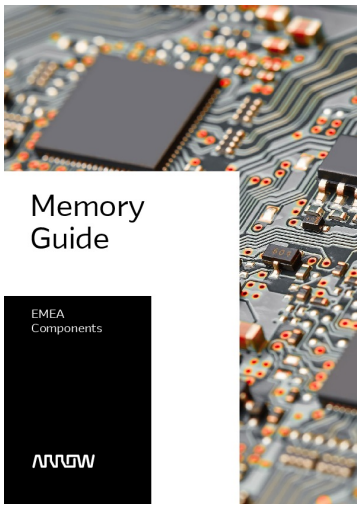

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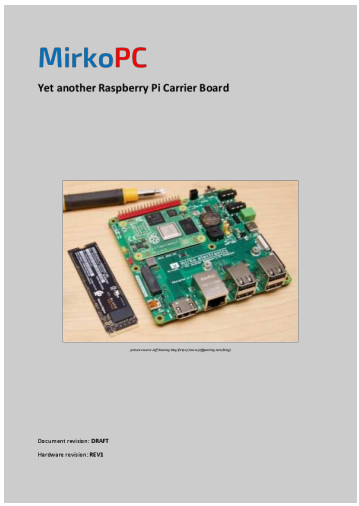

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Mirosław Folejewski MirkoPC Hackaday io sudo i2cdetect y 1 Page 23 User Manual (HW: REV1) 44 To check if the RTC clock is working properly with battery user manual v1 0 2021-04-14 cdn hackaday files 1776267599550784 All abbreviations used in this document are listed as below following table

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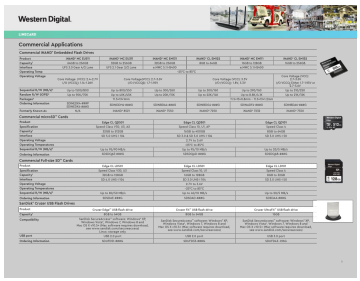

[pdf] Specifications

Linecard Commercial ApplicationsPC SA530 X600 CL SN520 SN720 Capacity1 256GB to 1TB 128GB 2TB 512GB Interface SATA III 6Gb s PCIe NVMe WPL03 Flash Storage Line Card EN USmy stage avnet wcm connect a4bb89ef 11ad 4e02 9c93 85374ef26295 WPL03 US MOD AJPERES ContentCache NONE CACHE CVID mReoBZF |||

LINECARD Commercial Applications Commercial iNAND Embedded Flash Drives Product Capacity1 Interfa ... G-I SDSDQED-###G-XI SDSDQAF4-###-I Product Capacity1 PC SA530 256GB to 1TB X600 128GB to 2TB CL **SN520** 128GB to 512GB CL SN720 256GB to 2TB Interface Form Factor Input Voltage SATA III 6Gb/s SA...

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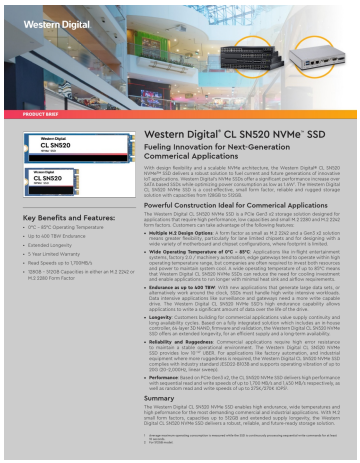

[pdf] Datasheet

Western Digital® CL SN520 NVMe™ SSD Product Brief Digital SanDisk SDAPNUW 512G 1022 467 SDAPNUW512G1022 Datasheet product brief western digital cl sn520 nvme ssd 1995587 mouser datasheet 2 669 |||

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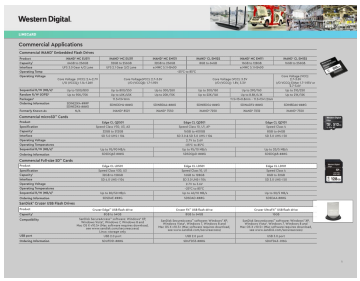

[pdf] User Manual Specifications

Linecard Commercial Applications Avnet iNAND ® Embedded Flash Drives Product MC EU511 EU311 iNAND® EM131 CL EM122 EM111 EM132 Capacity1 64GB to 256GB 32GB 8GB 16GB 128GB Interface UFS 3 0 Gear 4 2 Lane 1 e MMC 5 HS400 Operating Temp 25°C 85°C Smart Features Health Status Register Host Lock Programmable String Secured FFU Auto and Manual Read Refresh Ordering Information SDUFDEC G SDUFDEA Connected Home CH EM123 95°C WPL03 Storage Line Card EN US MOD AJPERES CVID mReoBZF avnet wps wcm connect onesite a4bb89ef 11ad 4e02 9c93 85374ef26295

LINECARD Commercial Applications Commercial iNAND Embedded Flash Drives Product Capacity1 Interfa ... G-I SDSDQED-###G-XI SDSDQAF4-###-I Product Capacity1 PC SA530 256GB to 1TB X600 128GB to 2TB CL **SN520** 128GB to 512GB CL SN720 256GB to 2TB Interface Form Factor Input Voltage SATA III 6Gb/s SA...

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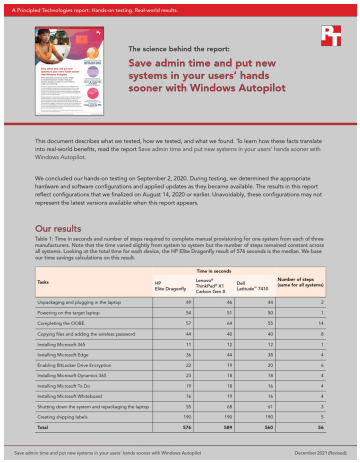

[pdf] User Manual

Microsoft Windows Autopilot vs manual provisioning user driven mode admin time savings hands on zero IT touch deployment device system laptop streamline 10 Principled Technologies PT facts matter Inc science 1221 v2 principledtechnologies 1020 |||

A Principled Technologies report: Hands-on testing. Real-world results. The science behind the repor ... de 7410 Intel Intel Core i7-10810U 1.10 6 12 16 DDR4 2,667 Intel Intel UHD Graphics Western Digital **SN520** 512 GB PCI SSD M.2 Intel Wi-Fi 6 AX201 2x2 802.11ax Bluetooth 5.1 1 x USB 3.2 Gen 1 with Pow...

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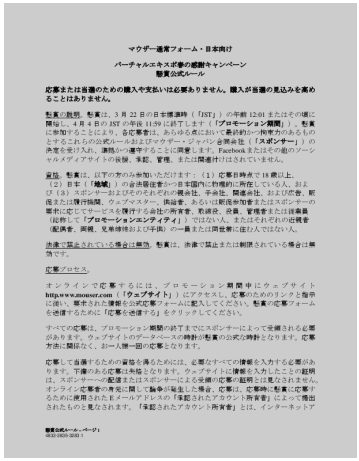

マウザー通常フォーム・日本向け

バーチャルエキスポ春の感謝キャンペーン
懸賞公式ルール

応募または当選のための購入や支払いは必要ありません。購入が当選の見込みを高めることはありません。

懸賞の期間。懸賞は、3 月 22 日の日本標準時（「JST」）の午前 12:01 またはその頃に開始し、4 月 4 日の JST の午後 11:59 に終了します（「プロモーション期間」）。懸賞に参加することにより、当応募者は、あらゆる点において最終的かつ拘束力のあるものとするこれらの公式ルールおよびマウザーエレクトロニクス・ジャパン合同会社（「スポンサー」）の決定を受け入れ、遵守することに同意します。Facebook またはその他のソーシャルメディアサイトの後援、承認、管理、または関連付けはされていません。

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オンラインで応募するには、プロモーション期間中にウェブサイト **http.www.mouser.com**（「ウェブサイト」）にアクセスし、応募のためのリンクと指示に従い、要求された情報からの応募フォームに記入してください。懸賞の応募フォームを送信するために「応募を送信する」をクリックしてください。

すべての応募は、プロモーション期間の終了までにスポンサーによって受信される必要があります。ウェブサイトのデータベースの時計が懸賞の公式な時計となります。応募方法に関係なく、お一人様一回の応募となります。

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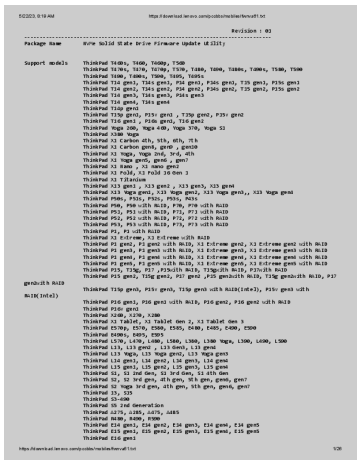
3 22 JST 12:01 4 4 JST 11:59 Facebook 18 http.www.mouser.com E 1 4833-3835-3283.1 E E E / / E E 2021 4 2 4833-3835-3283.1 Western Digital **SN520** NVMe SSD SDAPNUW-512G1022 30 30 30 ...

lang:i-klingon score:14 filesize: 326.28 K page_count: 6 document date: 2021-03-30



5/22/23, 8:19 AM https://download.lenovo.com/pccbbs/mobiles/fwnva61.txt

Revision : 01

Package Name NVMe Solid State Drive Firmware Update (Flash)

Support models

ThinkPad T430s, T430, T430p, T530
ThinkPad T470s, T470, T470p, T570, T480, T480s, T480s, T580, T590
ThinkPad T490, T490s, T590, T495, T495s
ThinkPad T14 gen1, T14s gen1, P14 gen1, P14s gen1, T25 gen1, P24v gen1
ThinkPad T14 gen2, T14s gen2, P14 gen2, P14s gen2, T25 gen2, P15v gen2
ThinkPad T14 gen3, T14s gen3, P14s gen3
ThinkPad T14 gen4, T14s gen4
ThinkPad T16p gen1
ThinkPad T15p gen1, P15v gen1 , T15p gen2, P15v gen2
ThinkPad T16 gen1 , P16s gen1, T16 gen2
ThinkPad Yoga 260, Yoga 460, Yoga 370, Yoga S1
ThinkPad X380 Yoga
ThinkPad X1 Carbon 4th, 5th, 6th, 7th
ThinkPad X1 Carbon Gen8, Gen9 , Gen10
ThinkPad X1 Yoga, Yoga 2nd, 3rd, 4th
ThinkPad X1 Yoga Gen5, Gen6 , Gen7
ThinkPad X1 Nano , X1 nano Gen2
ThinkPad X13 , X13 P13s 16 Gen 3
ThinkPad X1 Titanium
ThinkPad X13 gen1 , X13 Gen2 , X13 Gen3, X13 Gen4
ThinkPad X13 Yoga Gen1, X13 Yoga Gen2, X13 Yoga Gen3,, X13 Yoga Gen4
ThinkPad P50s, P51s, P52s, P53s, M31s
ThinkPad P50, P50 with Rc10, P70, P70 with Rc10
ThinkPad P51, P51 with Rc10, P71, P72 with Rc10
ThinkPad P52, P52 with Rc10, P72, P72 with Rc10
ThinkPad P53, P53 with Rc10, P73, P73 with Rc10
ThinkPad P1, P1 with Rc10
ThinkPad X1 Extreme, X1 Extreme with Rc10
ThinkPad P1 gen2, P1 gen2 with Rc10, X1 Extreme gen2, X1 Extreme gen2 with Rc10
ThinkPad P1 gen3, P1 gen3 with Rc10, X1 Extreme gen3, X1 Extreme gen3 with Rc10
ThinkPad P1 gen4, P1 gen4 with Rc10, X1 Extreme gen4, X1 Extreme gen4 with Rc10
ThinkPad P1 gen5, P1 gen5 with Rc10, X1 Extreme gen5, X1 Extreme gen5 with Rc10
ThinkPad P15, P15g, P17 , P15with Rc10, P17with Rc10
ThinkPad P15 gen2, P15g gen2, P17 gen2 ,P15 gen2with Rc10, P15g gen2with Rc10, P17 gen2with Rc10
ThinkPad P15g gen3, P15v gen3, P15g gen3 with Rc10(Intel), P15v gen3 with Rc10(Intel)
ThinkPad P16 gen1, P16 gen2 with Rc10, P16 gen2, P16 gen2 with Rc10
ThinkPad P16v gen1
ThinkPad X280, X270, X260
ThinkPad X1 Tablet, X1 Tablet Gen 2, X1 Tablet Gen 3
ThinkPad E570p, E570, E560, E565, E490, E485, E480, E580
ThinkPad E580p, E480, E585
ThinkPad L570, L470, L580, L480, L390, L590 Yoga, L380, L490, L590
ThinkPad L13 gen1, L13 Gen2, L13 gen3
ThinkPad L13 Yoga, L15 Yoga Gen1, L15 Yoga Gen2
ThinkPad L14 Gen1, L14 Gen2, L14 Gen3, L14 Gen4
ThinkPad L15 Gen1, L15 Gen2, L15 Gen3, L15 Gen4
ThinkPad S2, S2 2nd Gen, S2 3rd Gen, S2 4th Gen
ThinkPad S2, S2 3rd gen, 4th gen, 5th gen, Gen6, Gen7
ThinkPad S2 Yoga 3rd gen, 4th gen, 5th gen, Gen6, Gen7
ThinkPad 13, 13S
ThinkPad S3-Gen
ThinkPad X1 2nd Generation
ThinkPad A275, A285, A475, A485
ThinkPad R490, R490, R590
ThinkPad E14 Gen1, E14 Gen2, E14 Gen3, E14 Gen4, E14 Gen5
ThinkPad E15 Gen1, E15 Gen2, E15 Gen3, E15 Gen4, E15 Gen5
ThinkPad E15 Gen1

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Revision 01 ReadMe fwnva61 h30434 www3 hp psg attachments Business PC Workstation POS 43203 1 |||

5/22/23, 8:19 AM https://download.lenovo.com/pccbbs/mobiles/fwnva61.txt Revision : 01 ---------- ... WDC PC SN720 SDAQNTW-256G-1001 WDC PC SN720 SDAQNTW-512G-1001 WDC PC SN720 SDAQNTW-1T00-1001 WDC PC **SN520** SDAPMUW-128G-1001 WDC PC **SN520** SDAPMUW-256G-1001 WDC PC **SN520** SDAPMUW-512G-1001 https://downl...

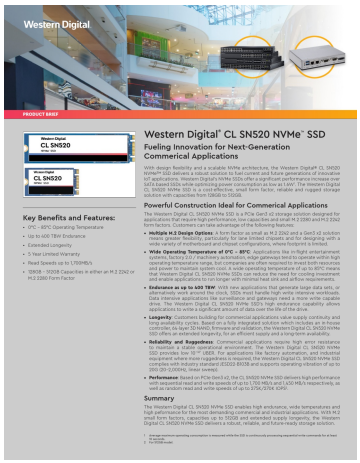
lang:tl score:13 filesize: 212.94 K page_count: 26 document date: 2023-05-22

[pdf] Specifications Documentation Safety Datasheet

D3598 G SnT Group Kontron Melanie Preuss Ryzen Approved M 2 SSDs V1 1 ftp kontron Products Motherboards Industrial D3713 Documentation Specification |||

AMD RYZEN Approved M.2 SDD Modules V1.1 Product Center Boards, December 2020 M2. SSD MODULES FOR AMD RYZEN SSD modules approved by Kontron: M.2 Key-B NVME 2 Lanes Western Digital M.2 - 2242 128GB WD PC **SN520** 2 M2. SSD MODULES FOR AMD RYZEN SSD modules approved by Kontron: M.2 Key-B ...

lang:en score:13 filesize: 619.63 K page_count: 5 document date: 2020-12-10



[pdf] Decleration of Conformity

Western Digital® CL SN520 NVMe™ SSD Product Brief 02 01 WW 04 00010 Digital NVMe TM Fueling Innovation for Next Generation Commerical Applications Key Benefits and Features 0°C 85°C Operating Temperature product brief western digital cl sn520 nvme ssd documents westerndigital content dam doc library en us assets public embedded flash commercial

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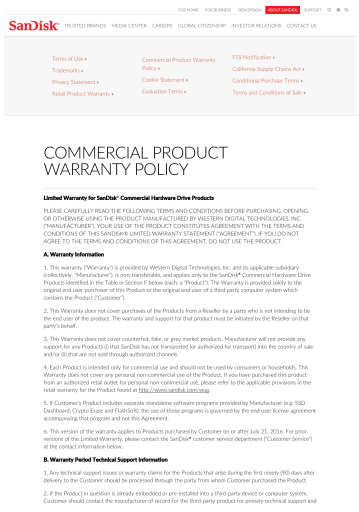
lang:en score:13 filesize: 455.28 K page_count: 2 document date: 2019-03-27

[Lieske Industry-Electronics Preisliste: Computerkomponenten, Server & Zubehör]

Umfassende Preisliste von Lieske Industry-Electronics (17.08.2022) mit Computerkomponenten, Barebone-Systemen, Servern, Eingabegeräten und Zubehör von Marken wie ASUS, Intel, Supermicro, Logitech, Cherry und mehr.

lang:tl score:12 filesize: 3.96 M page_count: 324 document date: 2022-08-17

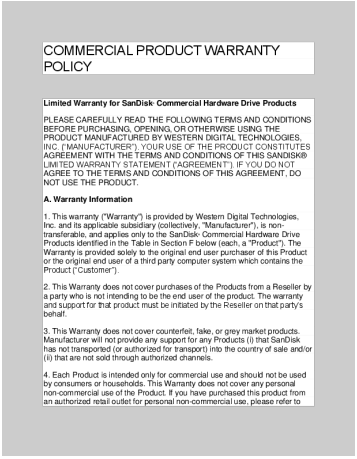


[pdf] Datasheet Safety Datasheet Warranty

SDSA6DM 016G SANDISK Datasheet Live Commercial Hardware Drive Products 19 мая 2025 г — To make a warranty claim Customer may either contact the distributing or reselling party from which purchase was made Reseller within Warranty Directory Sale Global Supply Chains Offer Electronic Components Industrial Automation Process datasheet live a3ee6259 sandisk |||

FOR HOME FOR BUSINESS OEM DESIGN ABOUT SANDISK SUPPORT TRUSTED BRANDS MEDIA CENTER CAREERS GLOBAL ... 0 SED SSDs SD9TN8W-128G SD9TN8W-256G SD9TN8W-512G SD9TN8W-1T00 SD9TN8W-2T00 Western Digital PC **SN520** SSDAPTUW-128G NVMeTM SSD SDAPTUW-256G SDAPTUW-512G SDAPMUW-128G SDAPMUW-256G SDAPMUW-512...

lang:en score:10 filesize: 280.47 K page_count: 9 document date: 0000-00-00



COMMERCIAL PRODUCT WARRANTY POLICY

Limited Warranty for SanDisk® Commercial Hardware Drive Products

PLEASE CAREFULLY READ THE FOLLOWING TERMS AND CONDITIONS BEFORE PURCHASING, OPENING, OR OTHERWISE USING THE PRODUCT MANUFACTURED BY WESTERN DIGITAL TECHNOLOGIES, INC. ("MANUFACTURER"). YOUR USE OF THE PRODUCT CONSTITUTES AGREEMENT WITH THE TERMS AND CONDITIONS OF THIS SANDISK® LIMITED WARRANTY STATEMENT ("AGREEMENT"). IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT, DO NOT USE THE PRODUCT.

A. Warranty Information

1. This warranty ("Warranty") is provided by Western Digital Technologies, Inc. and its applicable subsidiary (collectively, "Manufacturer"), is non-transferable, and applies only to the SanDisk® Commercial Hardware Drive Products identified in the Table in Section F below (each, a "Product"). The Warranty is provided solely to the original end user purchaser of this Product or the original end user of a third party computer system which contains the Product ("Customer").

2. This Warranty does not cover purchases of the Products from a Reseller by a party who is not intending to be the end user of the product. The warranty and support for that product must be initiated by the Reseller on that party's behalf.

3. This Warranty does not cover counterfeit, fake, or grey market products. Manufacturer will not provide any support for any Products (i) that SanDisk has not transported (or authorized for transport) into the country of sale and/or (ii) that are not sold through authorized channels.

4. Each Product is intended only for commercial use and should not be used by consumers or households. This Warranty does not cover any personal non-commercial use of the Product. If you have purchased this product from an authorized retail outlet for personal non-commercial use, please refer to

[pdf] Warranty

Guido Artavia Ricardo Andres 81A3RqAeiZS m media amazon images I |||

COMMERCIAL PRODUCT WARRANTY POLICY Limited Warranty for SanDisk Commercial Hardware Drive Products P ... years SDAPTUW-512G Five 5 years SDAPMUW-128G Five 5 years Western Digital SDAPMUW-256G PC **SN520** NVMeTM SSD SDAPMUW-512G Five 5 years Five 5 years SDAPNUW-128G Five 5 years SDAPNUW...

lang:en score:10 filesize: 428.29 K page_count: 20 document date: 2018-09-07

Lieske industryelectronics

Industry-Electronics
Preisliste vom 17.08.2022

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Industry Electronics Preisliste Lieske Elektronik vom 17 08 2022 Aug · Computer Komponenten Festplatten S ATA 2 5 Zoll Orico to 4BAY 4X10TB IN 880869 WDBNFA0400KBK EESN 2449 00€ Computer lieske festplatten industry electronics de preislisten |||

Preisliste vom 17.08.2022 - Alle Preise verstehen sich zzgl. der gesetzlichen MwSt und zzgl. Versand ... im Shop abweichen Artikel Computer-Komponenten - Festplatten - SSD M.2: SANDISK Western Digital **SN520** SSD M.2 2242 128GB PCIe Gen3 x2 NVMe v1.3 intern Die Western Digital PC **SN520** NVMe SSD steht a...

lang:de score:9 filesize: 1.02 M page_count: 78 document date: 2022-08-17

A Principled Technologies report: Hands-on testing. Real-world results.

Dell Latitude 7410 Business Laptop with an Intel Core i7-10610U vPro processor outperformed Lenovo ThinkPad T14s Laptop with an AMD Ryzen 7 PRO 4750U processor

We compared battery life and system responsiveness on two 14-inch Microsoft Windows-based premium business laptops: the Dell Latitude™ 7410 powered by an Intel® Core™ i7-10610U vPro® processor and the Lenovo® ThinkPad® T14s powered by an AMD Ryzen™ 7 PRO 4750U processor.

For battery life and performance metrics, we ran the MobileMark® 2018 and SYSmark® 2018 benchmarks, which use actual applications in real-world workloads that reflect business worker usage patterns.

Enjoy over 13 hours unplugged

based on MobileMark 2018 battery life results

Get more done with 43% faster system responsiveness

based on MobileMark 2018 overall performance scores

Dell Latitude 7410 Business Laptop

This 14-inch premium business laptop comes with Dell Optimizer, your choice of a range of 10th Gen Intel Core vPro processors, and a 4K low blue light panel.† The vPro platform, according to Intel, "delivers much more than the sum of its parts—combining performance, security, manageability, and stability to provide what IT needs and your users want."

Dell Latitude 7410 Business Laptop with an Intel Core i7-10610U vPro processor outperformed Lenovo ThinkPad T14s Laptop with an AMD Ryzen 7 PRO 4750U processor

November 2020 (Revised)

[pdf]

Dell Latitude 7410 battery comparison Principled Technologies PT Lenovo ThinkPad T14s Laptop 10th Gen Intel Core i7 processor vs AMD vPro Ryzen 7 10610U 47500U life MobileMark 2018 benchmark testing performance qualification score longer without sacrificing A different perspective on while working Inc 1120 v2 principledtechnologies

A Principled Technologies report: Hands-on testing. Real-world results. Dell Latitude 7410 Business ... hics Vendor Intel Model number UHD Graphics Storage Vendor Western Digital Model number PC **SN520** Amount GB 512 Type M.2 PCIe NVMe Connectivity/expansion Wired internet N/A Wireless ...

lang:en score:9 filesize: 651.47 K page_count: 11 document date: 2020-11-18