

M2 interface and st



1075KWHH ESS

Overview

M.2 connector can provide multiple interface options, including up to four lanes of PCI Express, as well as Serial ATA 3.2 (pronounced "em-dot-two"), formerly known as the Next Generation Form Factor (NGFF), is a specification for internally mounted computer expansion cards and connectors. It was developed to replace the older Mini SATA (mSATA) and Mini PCIe (mPCIe) standards. M.2 supports a variety of modules. M.2 expansion is rapidly becoming the standard choice for onboard expansion in embedded and industrial computing systems, gradually replacing older interfaces like mPCIe and mSATA for both storage and peripheral connectivity. M.2 interface is far superior to mSATA in terms of both specification size and transmission performance. The BlueNRG-M2 module supports multiple roles simultaneously and can act at the same time as Bluetooth master and slave device.



Article Content

Solid State Drive (SSD) Market Size, Growth & Trends

Key Report Takeaways By interface, PCIe and NVMe captured 62.34% solid state drive market share in 2025 while registering a 17.03% CAGR

What is the difference between M.2 interface, M.2 B

The M.2 interface mainly has two interface interfaces, B and M. The B interface supports SATA or PCI-E x2 channels, with a maximum read speed of

What is the M.2 Interface? A Comprehensive Guide

Discover everything you need to know about the M.2 interface, its applications, and how it can improve your computer's performance.

M.2 Keys and Form Factors: A Comprehensive Guide

Learn about the M.2 keys and form factors that are revolutionizing internal expansion with better speeds and compatibility.

Differences between MII and RMII interfaces

Summary In STM32-based Ethernet designs, connecting the internal media access controller (MAC) to an external physical layer transceiver (PHY)

The M.2 interface

There is already an M.2 interface in many PCs and notebook computers. It is ideally applicable to connect an SSD in a compact mobile device such as in a notebook

M.2 - Wikipedia

Es gibt M.2-Varianten mit bis zu vier PCI-Express- Lanes (z. B. zu 4 × 16 GT/s auch als Gen4 genannt), einem SATA Revision 3.x (6 Gbit/s) und/oder einem USB-3.0

M.2 SSD Keys & Sockets: B, M, B+M and Socket 3 Guide

A clear guide to M.2 keys (B, M, B+M) and Socket 3: what each notch means, which interface it carries, and how to match an SSD to the socket.

2 Types of M.2 SSDs: SATA and NVMe

There are two types of M.2 SSDs: SATA and NVMe. SATA uses an older interface with one designed around hard drives while NVMe is designed for flash memory.

Audio Science Review (ASR) Forum

DACs, Streamers, Servers, Players, Audio Interface Review, measurements and discussion of the science behind digital audio and its

Fastest 2.5" SATA SSDs in 2026: Ranking | GPCB

☐☐ A complete guide to high-end 2.5" SATA solid state drives, including details, reviews, and ranking based on real-world performance.

What Is the M.2 Specification? Everything You Need to

The M.2 Interface is Awesome With its versatility, M.2 is currently one of the most important connectors in computing. And while most of the time, you'll

M.2 SSD vs. SATA SSD: Which One Is Suitable for

In addition, M.2 interface has three popular module specifications. They are 2242, 2260, and 2280, respectively. The most common one is 2280,

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The GNU C Library (glibc) manual. This glibc manual version 2.43 (latest) is available in the following formats: HTML - entirely on one web page. HTML - one web page per node. HTM

All SSD Connectors Types Explained (SATA, M.2, NVMe, etc.)

M.2 slots can support both SATA and PCIe interfaces, making them highly versatile. M.2 SSDs come in various sizes, commonly referred to by numbers like 2280 (22mm wide and 80mm long).

What Is the M.2 Specification? Everything You Need to

Spread the loveThe M.2 specification is a modern interface standard that has gained popularity in recent years. It was developed as an upgrade to the older mSATA

M.2 (NGFF) Connector Pinout and Keying Explained

Comprehensive guide to the M.2 (NGFF) connector pinout, including different module keys (B, M, A, E), supported interfaces (PCIe, SATA, USB), and

History of the graphical user interface

The history of the graphical user interface, understood as the use of graphic icons and a pointing device to control a computer, covers a five-decade span of

Understanding M.2 Interface Keys

M.2 stands at the forefront of internal connection standards, primarily used for solid-state drives (SSDs). Its popularity stems from its ability to support

Differences Between M2 Cards M2 Slots Keys Sizes

Learn to distinguish M.2 cards, including slots, keys, sizes, and types. Understand M.2 slot functionality, M.2 and PCIe interfaces, and the M.2

M.2 Keys and Form Factors: A Comprehensive Guide

Motherboard manuals often detail compatible M.2 interfaces and form factors. Cross-reference this information with the specifications of the SSD you plan to buy.

What is the difference between M.2 interface, M.2 B

What is the M.2 interface? The M.2 interface is a new interface specification newly launched by Intel to replace MSATA. Simply put, it is a new host interface

What Is the M.2 Expansion Slot, and How Can I Use It?

Potentially, it could supersede the whole aging Serial ATA format altogether. M.2 is a slot that can interface with SATA 3.0 (the cable that's

Datasheet

The BlueNRG-M2 module has been designed around the ST BlueNRG-2 SoC where its Cortex-M0 core can execute both Bluetooth protocols and customer application. Optimized memory architecture

What is the difference between M.2 interface, M.2 B key, and M key?

The M.2 interface, also known as Next Generation Form Factor (NGFF), is a compact and versatile connector used for various components in laptops, desktops, and other devices.

M.2 Key and Socket Types: Understanding B, M & B+M SSD

Formerly known as Next Generation Form Factor (NGFF), this specification for internally mounted computer add-in cards gained widespread adoption for high performance, compact size,

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