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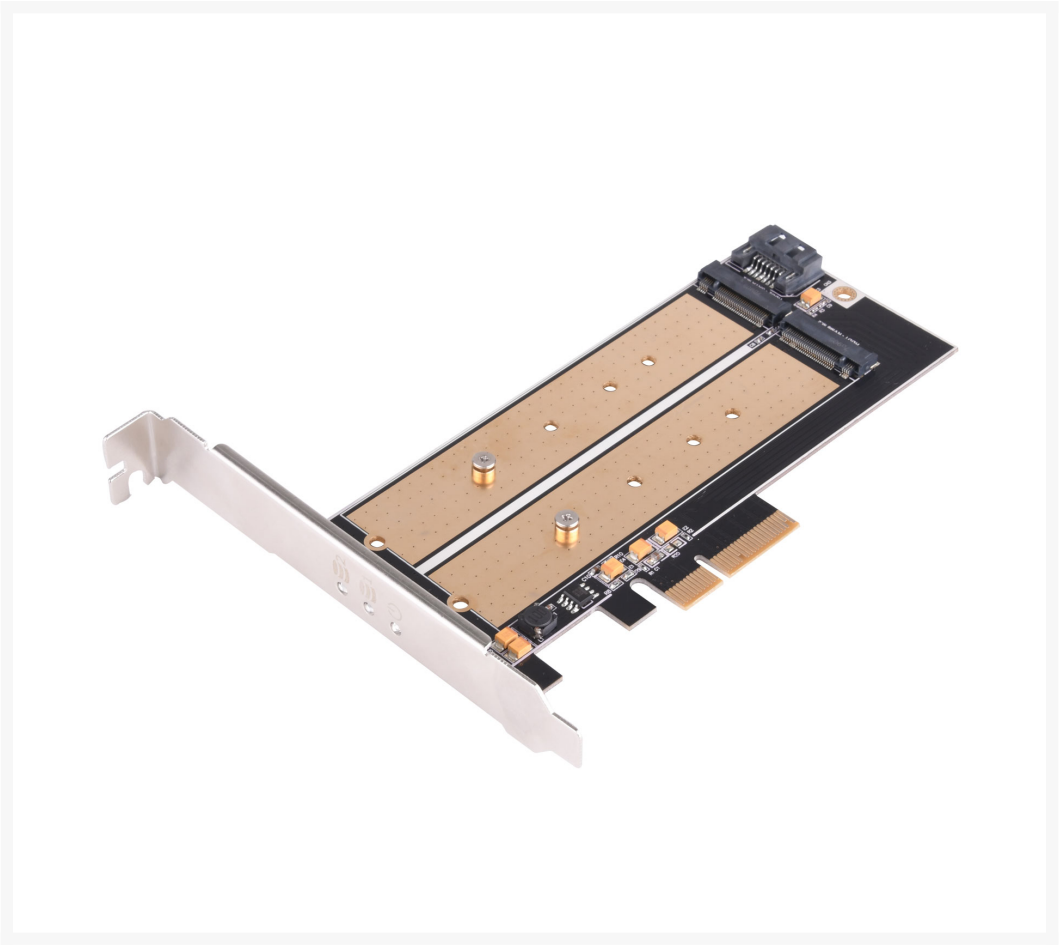
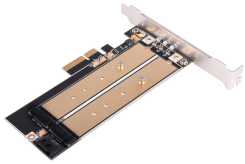
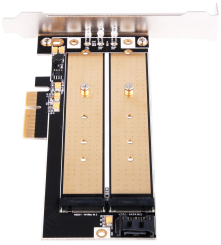
SilverStone ECM22 M.2 PCI-E / SATA Adapter Card

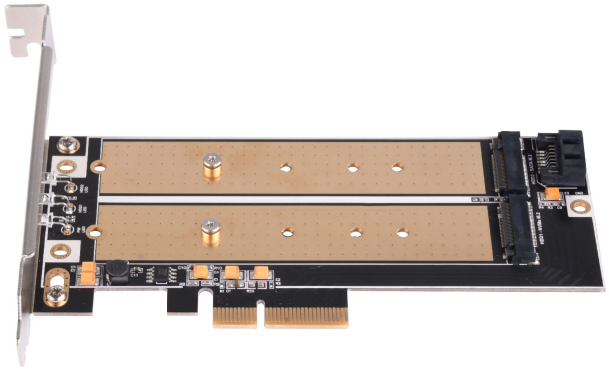
$36.99

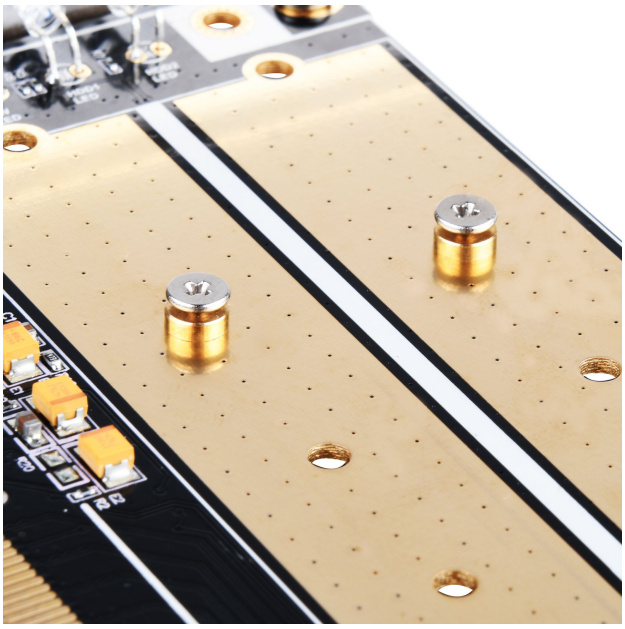
Product Images

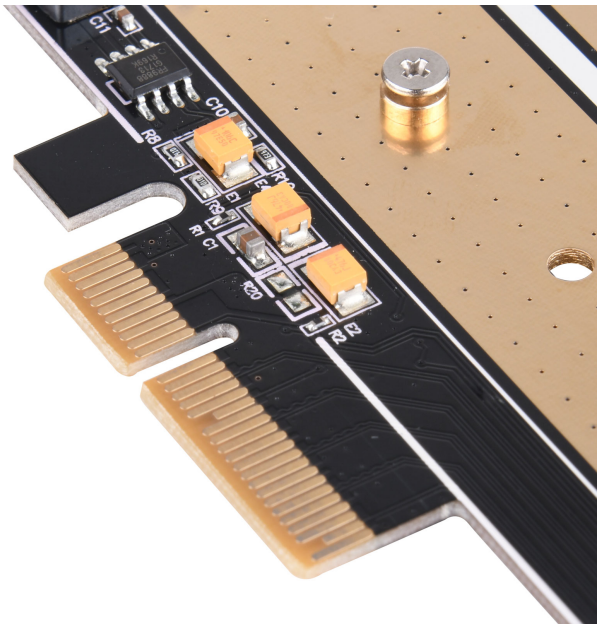












Short Description

SilverStone's ECM22 is an adapter designed for users wanting to utilize or add speedy M.2 devices such as SSD onto their existing PC or motherboard. In addition to support for one M.2 device (M key) to run via the super fast PCIe interface at up to 32 Gbps, a second M.2 slot (B key) is available for connecting to a SATA III port for increased storage potential.

Description

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Features

- Exposed gold inlays efficienty cool installed M.2 SSD for consistently high performance
- Supports M.2 SSD up to 110mm in length
- Converts one M.2 port (M key) into one PCIe x4 interface

- Converts a second M.2 port (B key) into SATA interface
- Supports two M.2 SSD simultaneously
- Includes optional Low-profile expansion slot
- No driver installation required

Specifications

LED indicator	Power LED: Red SATA M.2 SSD Read / Write LED: Orange PCIe M.2 SSD Read / Write LED: Blue
Interface	PCI Express x4 / SATA 6 Gbps
SSD Interface	M.2 (NGFF)
Module Key	SATA-based B key PCIe x4 NVMe-based M key
Number of Drives	2
Net weight	60g
Support Length of M.2 SSD	30mm, 42mm, 60mm, 80mm, 110mm
Operating system support	Microsoft Windows 7 (32bit/64bit), 8/8.1/10 (32bit/64bit) or future release version Mac OS 10.2.8 or above Linux
Dimension	121mm (W) x 11mm (H) x 157.3mm (D) 4.76" (W) x 0.43" (H) x 6.19" (D)

Test Environment

CPU	Intel Core i7 5930K
CPU Cooler	SilverStone HE01
Motherboard	MSI X99 SLI Plus
RAM	ADATA XPG Dazzle DDR4-2400 8GB x 2
PSU	SilverStone ST1200-G Evolution
VGA	ASUS Strix GeForce GTX 980
SSD	Samsung SM951
Thermal pad	SilverStone TP01-M2

There are three types of M.2 SSDs, please make sure you know the difference between them and whether your system/motherboard support them before pairing these with your SilverStone product.

Legacy SATA (B key)

Used for SATA SSDs, and interfaced through the AHCI driver and legacy SATA 3.0 (6 Gbit/s) port exposed through the M.2 connector.

PCI Express using AHCI (M key)
Used for PCI Express SSDs and interfaced through the AHCI driver and provided PCI Express lanes, providing backward compatibility with widespread SATA support in operating systems at the cost of not delivering optimal performance by using AHCI for accessing PCI Express SSDs.

PCI Express using NVMe (M key)
Used for PCI Express SSDs and interfaced through the NVMe driver and provided PCI Express lanes, as a high-performance and scalable host controller interface designed and optimized especially for interfacing with PCI Express SSDs. NVMe has been designed from the ground up, capitalizing on the low latency and parallelism of PCI Express SSDs, and complementing the parallelism of contemporary CPUs, platforms and applications.

The following SSD models have been tested and verified by SilverStone to work optimally with the product presented on this page.

- Samsung NVMe SSD SM951/961 M.2
- Samsung NVMe SSD 960 EVO M.2
- Samsung NVMe SSD 960 PRO M.2

Remark

* ECM22's 'M' key is for use only with PCIe SSD, 'B' key is for use with only SATA SSD

** B key SSD requires SATA 7 pin cable connected to motherboard to function

*** For B+M Key SATA M.2 SSD, please use B key slot

**** M.2 PCIe NVMe mode SSD requires the use of Intel® 9 series (Z97 H97 Z170 X99) or higher version chipset motherboard with Windows 8 or higher version operating system

***** If you wish to boot off using M.2 SSD, your motherboard needs to support it. Due to BIOS limitations, not all motherboards support booting off M.2 SSD so please consult your motherboard manual or vendor for more details on how to enable this function

****** Before installing M.2 SSD to ECM22, please make sure to remove protective film covering the gold inlays to ensure optimal heat transfer performance

Additional Information

Brand	SilverStone Technology
SKU	SST-ECM22
Weight	1.0000
Color	Black
Card Function	SSD Adapter Card
Card Form Factor	PCI EXPRESS
Ports	M.2
Driver Support/OS Compatibility	Microsoft Windows 7 (32bit/64bit), 8/8.1/10 (32bit/64bit) or future release version Mac OS 10.2.8 or above Linux
Vendor SKU/EAN	844761014926