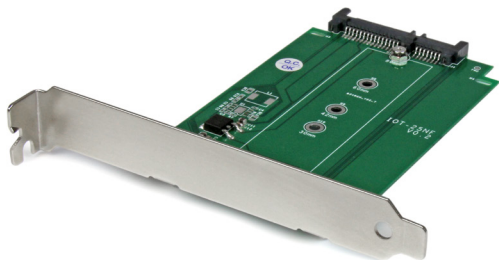# StarTech.com

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SATA to M.2 NGFF SSD Adapter with Expansion Slot Mounting

S32M2NGFFPEX

*actual product may vary from photos

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Manual Revision: 11/03/2014

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by StarTech.com could void the user's authority to operate the equipment.

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.

CAN ICES-3 (B)/NMB-3(B)

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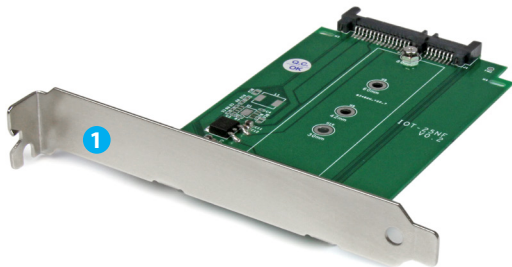
Introduction

System Requirements

- M.2 NGFF SSD Drive
- Computer System with:
    - Available Low profile or full profile Expansion slot (PCI or PCI Express)
    - Available SATA port on the motherboard
    - Available SATA Power connector on the power supply

What's in the Box

- 1 x SATA to M.2 NGFF SSD Adapter
- 1 x Full profile bracket (pre-installed)
- 1 x Low profile bracket
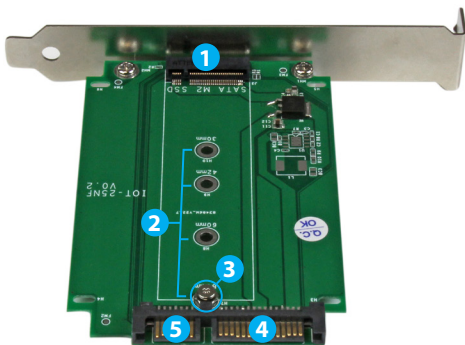- 2 x SSD Installation screws
- 2 x PCI slot standoffs

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Product Diagram

Front View

1. Mounting Bracket (Full profile pictured)

Rear View

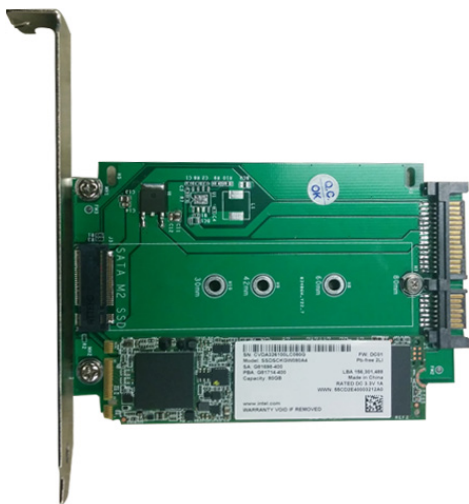1. M.2 NGFF connector
2. SSD Mounting holes
3. SSD standoff and installation screw
4. SATA Power Port
5. SATA Data Port

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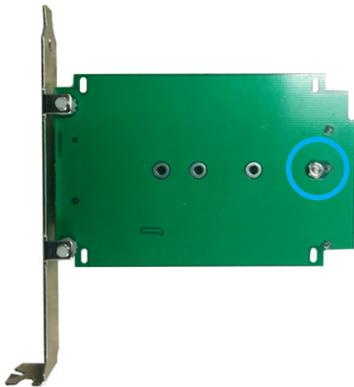
M.2 NGFF SSD Installation

WARNING:

SSD Drives and storage adapters require careful handling. If you are not careful with your SSD Drive, lost data may result. Always handle your drive with caution. Be sure that you are properly grounded by wearing an anti-static strap when handling computer components or discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds.
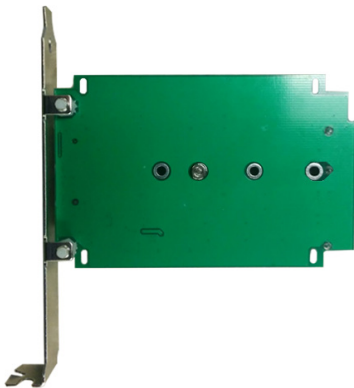
1. Determine if the SSD installation screw and standoff requires relocating by assessing your drive length. The board is labeled with the respective drive types for length but if your drive type is unknown, place your SSD next to the M.2 (NGFF) SSD connector, note which drive installation hole matches the height of your SSD. If the screw and standoff are already installed in the correct position please proceed to step 4.

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2. **(Only required if the drive installation screw and standoff requires relocating)** Remove the nut holding the SSD standoff in place on the reverse side using a small 5mm wrench/nut driver, or needle nosed players (not included).

3. (Only required if the drive installation screw and standoff requires relocating) Remove the SSD installation standoff, and reseat it into the drive installation hole that matches your SSD. Replace the nut on the reverse side and secure it into place using a 5mm wrech/nut driver or small set of needle nosed plyers.

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4. Using the included Phillips head screw driver. Remove the SSD screw located in the front of the SSD installation standoff.

5. Slide the M.2 connector on the SSD into the M.2 receprical connector on the S32M2NGFFPEX.

Note: The connector on your M.2 SSD is keyed so the drive will only fit one way.

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6. Press the drive down toward the SSD standoff, and drive the removed screw through the mounting hole on your SSD drive and into the SSD standoff using the included Philips head screw driver.

7. The SSD has now been installed, and is ready for system installation.

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System Installation Preparation

The S32M2NGFFPEX can be mounted in both low profile and full profile computer systems. Select the bracket that corresponds with your type of computer system.

(See Bracket Installation)

The S32M2NGFFPEX can be installed in an available PCI slot, or a PCI Express slot. If you intent to install the adapter into a PCI slot, the PCI standoffs must be used.

(See PCI Standoff installation)

Bracket Installation

1. Remove the undesired bracket by unscrewing the bracket screws from the top of the S32M2NGFFPEX board using a Phillips head screw driver (not included, included screw driver is too small).

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2. Replace the undesired bracket with your desired bracket lining up the mounting holes on the bracket with the bracket holes on the on the bottom of the S32M2NGFFPEX.

3. Drive the screws through the bracket holes on the S32M2NGFFPEX into the mounting holes on your desired bracket using a Philips head screw (not included, included screw driver is too small).

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4. The Bracket has now been installed.

PCI Standoff installation (Only required for PCI Slot Installation or if other components are in the way)
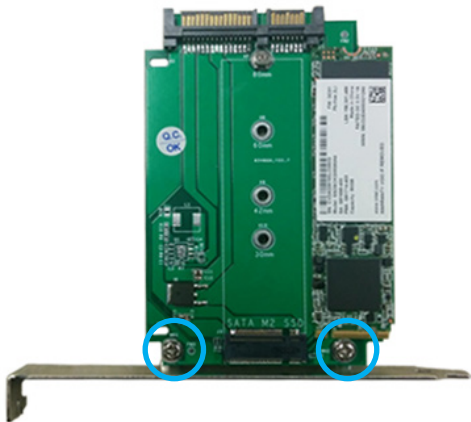
1. Remove the bracket by unscrewing the bracket screws from the top of the S32M2NGFFPEX board using a Phillips head screw driver (not included, included screw driver is too small).

2. Using your thumb and for finger or nut driver, screw each of the PCI slot standoffs into each of the board mounting holes on the bracket.

3. Using a Philips head screw driver (not included, included screw driver is too small) Drive the screws through the bracket holes on the S32M2NGFFPEX and into the PCI slot standoffs, that are now installed in the bracket.

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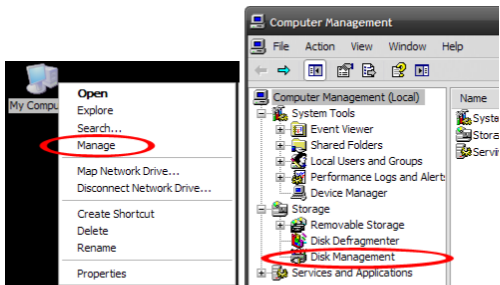4. The S32M2NGFFPEX is now ready for installation into a PCI slot.

System Installation

1. Open your computer case (refer to the computer case user manual for details), and

   place the S32M2NGFFPEX with installed M.2 NGFF SSD into an available expansion slot.

2. Using a computer case screw (not included) and the appropriate corresponding screw driver (not included). Drive the screw into the computer case through the case mounting hole on the mounting bracket (refer to the computer case user manual for details).

3. Connect a SATA cable from your motherboard to the SATA Data port on the S32M2NGFFPEX.

4. Connect a SATA Power cable from your power supply to the SATA Power Port on the S32M2NGFFPEX.

5. Replace the cover on your computer system, and installation is now completed.
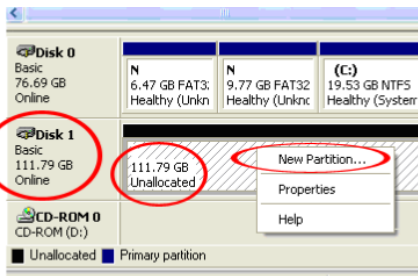
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Hard Drive Initialization

If the M.2 NGFF SSD is new or otherwise blank, it may need to be initialized and formatted before use. Follow the steps below in a Windows interface to initialize the drive.

1. From the main Windows desktop, right-click on "My Computer" ("Computer" in Vista/ 7 / 8), then select Manage. In the new Computer Management window, select Disk Management from the left window panel.

2. A dialog window should automatically appear, asking you to initialize the drive. Depending on the version of Windows, it will give you the option of either creating an "MBR" or "GPT" disk. GPT (GUID partition) is not compatible with some older operating systems, while MBR is supported by newer and older operating systems.

3. Once initialized, locate the Disk that says it is "Unallocated" (check the listed hard drive capacity to confirm it's the correct hard drive) and then right-click in the section that says "Unallocated" and select "New Partition".

4. Follow the on screen prompts to initialize the drive in the format of your choice.

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Warranty Information

This product is backed by a two year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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