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Inateck FE2016

Inateck FE2016 USB 3.2 Gen 2 Hard Drive Enclosure User Manual

Model: FE2016

1. PRODUCT OVERVIEW

The Inateck FE2016 is a high-performance external enclosure designed for 2.5-inch SATA Solid State Drives (SSDs) and Hard Disk Drives (HDDs). It features USB 3.2 Gen 2 connectivity, offering data transfer speeds up to 6Gbps. The enclosure includes a protective silicone case and an internal shock-absorbing sponge for enhanced drive security and durability.

2. PACKAGE CONTENTS

Packing List



1 × Inateck FE2016

1 × USB Data Cable (50cm)

1 × Shock-absorbing Sponge

1 × Instruction Manual

Figure 2.1: Package Contents

Please verify that all items are present in your package:

- 1 × Inateck FE2016 Hard Drive Enclosure
- 1 × USB Data Cable (50 cm)
- 1 × Shock-absorbing Sponge
- 1 × Instruction Manual

3. SPECIFICATIONS

Feature	Detail
Model	FE2016-BK
Compatible Drives	2.5-inch SATA SSDs/HDDs (7mm/9.5mm thickness)
Interface	USB 3.2 Gen 2 (Type-C to Type-A cable included)
Data Transfer Rate	Up to 6Gbps
Supported OS	Windows 7/8/10/11, Mac OS, Linux
Material	Silicone (case)
Dimensions	13.11 x 8.61 x 1.8 cm
Weight	109 g
Features	UASP, TRIM, Shock-absorbent, Tool-free installation

4. INSTALLATION GUIDE

4.1 Drive Compatibility

Protective Silicone Case

Leaves no scratches on your laptop



Figure 4.1: Compatible Drive Types

The Inateck FE2016 enclosure supports **2.5-inch SATA SSDs and HDDs** with a thickness of either 7mm or 9.5mm. Ensure your drive meets these specifications before installation.

4.2 Installing Your Drive

For 2.5" 7mm/9.5 mm SSDs/HDDs



Figure 4.2: Drive Installation

1. Gently slide open the top cover of the Inateck FE2016 enclosure.
2. Connect your 2.5-inch SATA SSD or HDD to the internal SATA connector within the enclosure. Ensure the connection is firm and secure.
3. Place the included shock-absorbing sponge on top of the drive to prevent movement and provide additional protection.
4. Slide the top cover back into place until it clicks, securing the drive within the enclosure.

5. OPERATION

5.1 Connecting to Your Computer

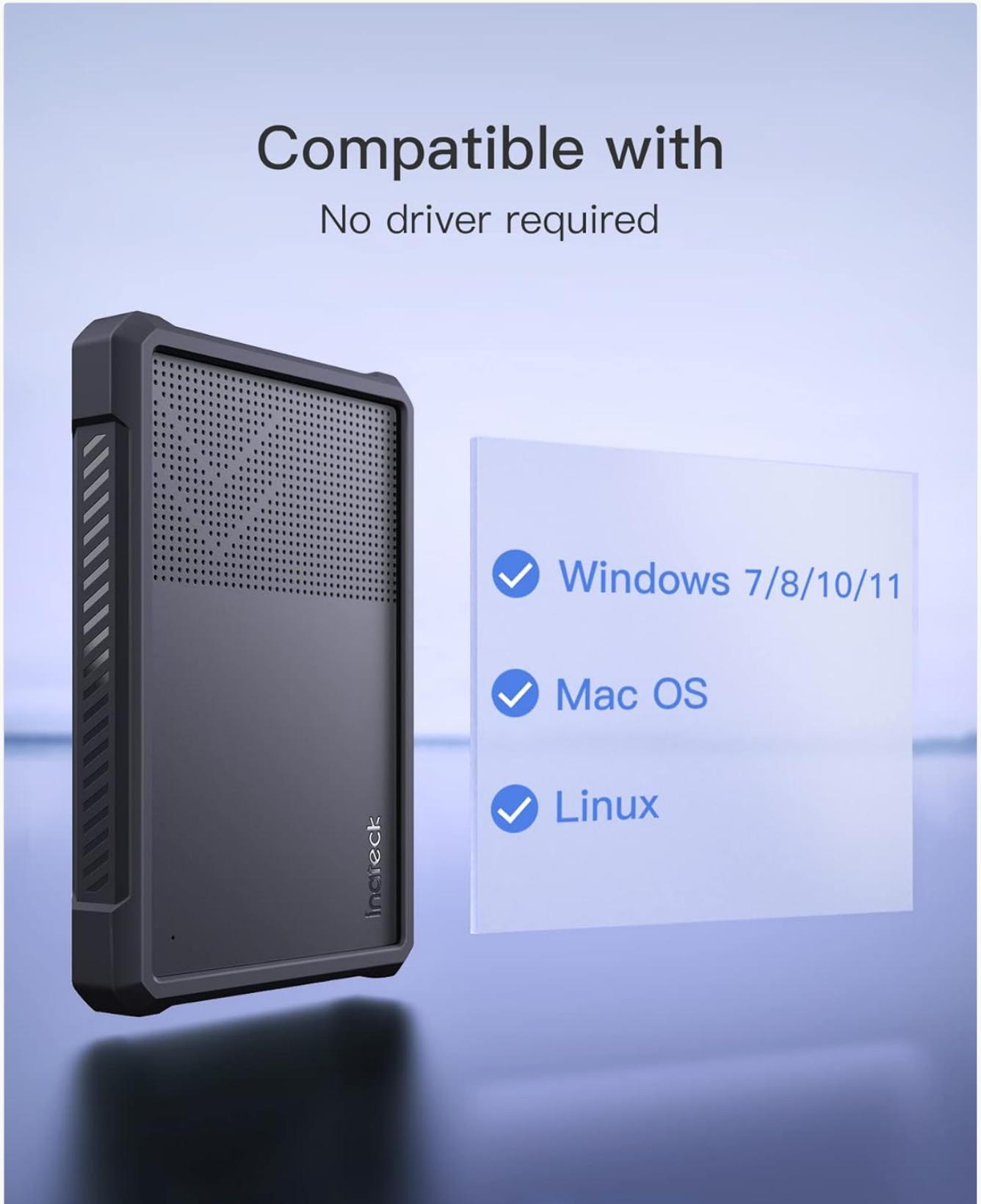


Figure 5.1: Operating System Compatibility

After installing your drive, connect the Inateck FE2016 enclosure to your computer using the provided USB data cable. The enclosure is plug-and-play and compatible with Windows 7/8/10/11, Mac OS, and Linux operating systems without requiring any additional driver installation.

For new drives, you may need to initialize and format the drive through your operating system's disk management

utility before it appears in your file explorer.

5.2 Data Transfer Performance

USB 3.2 Gen 2 Standard Up to 6Gbps

USB 3.0



USB 3.2 Gen 2

Capacity	Test	Read (MB/s)	Write (MB/s)
8TB	SEQ1MQ8T1 (Read)	419.31	569.14
	SEQ1MQ8T1 (Write)	374.50	536.67
1TB	SEQ1MQ1T1 (Read)	389.82	538.78
	SEQ1MQ1T1 (Write)	348.17	502.65
8TB	RND4KQ32T1 (Read)	166.30	162.73
	RND4KQ32T1 (Write)	162.25	191.59
1TB	RND4KQ1T1 (Read)	29.33	34.95
	RND4KQ1T1 (Write)	40.97	40.70

Note: Only SSDs can deliver data rates up to 6Gbps.

Figure 5.2: USB 3.2 Gen 2 Speed Comparison

The enclosure utilizes the USB 3.2 Gen 2 protocol, enabling data transfer speeds of up to 6Gbps. For optimal performance, ensure your computer's USB port also supports USB 3.2 Gen 2. The UASP (USB Attached SCSI Protocol) and TRIM functions further optimize transfer efficiency and contribute to the longevity of your SSDs.

Note: Only SSDs can deliver data rates up to 6Gbps. Traditional HDDs will operate at their maximum mechanical speed.

6. MAINTENANCE AND PROTECTION

6.1 Dual-Layer Protection



Figure 6.1: Dual-Layer Protection Design

The Inateck FE2016 is engineered with dual-layer protection to safeguard your valuable data. This includes a robust external silicone case and an internal shock-absorbing sponge. The silicone case provides a protective barrier against external impacts and prevents scratches on surfaces.

Dual-layer Protection

Enhances the security of hard drives



Figure 6.2: Protective Silicone Case in Use

The silicone case is designed to be shock-absorbent and drop-resistant, minimizing the risk of damage from accidental drops. Its soft texture also ensures that the enclosure will not scratch your laptop or other devices when placed nearby.

6.2 Cleaning

To clean the enclosure, gently wipe it with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials, as these may damage the surface or silicone case.

7. TROUBLESHOOTING

- **Drive not detected:**

- Ensure the drive is properly seated in the enclosure and the SATA connector is firm.
- Try connecting the enclosure to a different USB port on your computer.
- Verify the USB cable is securely connected at both ends.
- Check your computer's Disk Management (Windows) or Disk Utility (Mac OS) to see if the drive is recognized but uninitialized or unformatted.
- Test the enclosure with a different 2.5-inch SATA drive, if available, to rule out a drive issue.

- **Slow transfer speeds:**

- Ensure you are connected to a USB 3.2 Gen 2 (or at least USB 3.0) port on your computer. Older USB 2.0 ports will limit speeds.
- Verify the drive itself is capable of high speeds (SSDs generally perform faster than HDDs).
- Avoid transferring many small files simultaneously, as this can reduce overall transfer rates.

- **Enclosure feels loose or drive rattles:**

- Ensure the shock-absorbing sponge is correctly placed on top of the drive inside the enclosure.
- Confirm the enclosure cover is fully closed and latched.

8. WARRANTY AND SUPPORT

Inateck products come with a standard manufacturer's warranty. For specific warranty terms, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official Inateck website. Please retain your proof of purchase for warranty claims.

For further assistance, you may contact Inateck customer support through their official channels.