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## Bewinner Bewinners9rv57hbet

# Bewinner TPM 2.0 Module Chip

## INSTRUCTION MANUAL

### Introduction

The Bewinner TPM 2.0 Module is a dedicated security component designed to enhance the security of your computer system. It functions as a standalone encryption processor, securely storing encryption keys and protecting your data from unauthorized access. This module is essential for enabling advanced security features like BitLocker and is often a requirement for upgrading to newer operating systems such as Windows 11.

This manual provides detailed instructions for the proper installation, operation, and maintenance of your TPM 2.0 module, along with troubleshooting tips and product specifications.

### Setup

#### Pre-installation Checklist

- **Motherboard Compatibility:** Ensure your motherboard has a compatible 14-pin TPM header. This module supports various Intel (Z590, H570, Q570, B560, H510, Z490, H470, Q470, B460, H410, Z390, Z370, H370, Q370, B365, B360, H310, W480, C621, C422, C246 Series) and AMD (X570, B550, A520, X470, B450, X370, B350, A320, WRX80 Series) chipsets.
- **BIOS Update:** Some motherboards may require a BIOS update to the latest version to enable the TPM option. Consult your motherboard's manufacturer website for the latest BIOS and update instructions.
- **Power Off:** Completely shut down your computer and disconnect it from the power source before installation.
- **Static Precautions:** Take necessary anti-static precautions (e.g., anti-static wrist strap) to prevent damage to components.

#### Installation Steps

1. Locate the TPM header on your motherboard. It is typically labeled 'TPM' and is a 14-pin connector.
2. Carefully align the TPM 2.0 module with the pins on the motherboard header. Ensure the notch or key on the module aligns correctly with the header to prevent incorrect insertion.
3. Gently press the module down until it is firmly seated. Do not force the module if it does not fit;

recheck alignment.

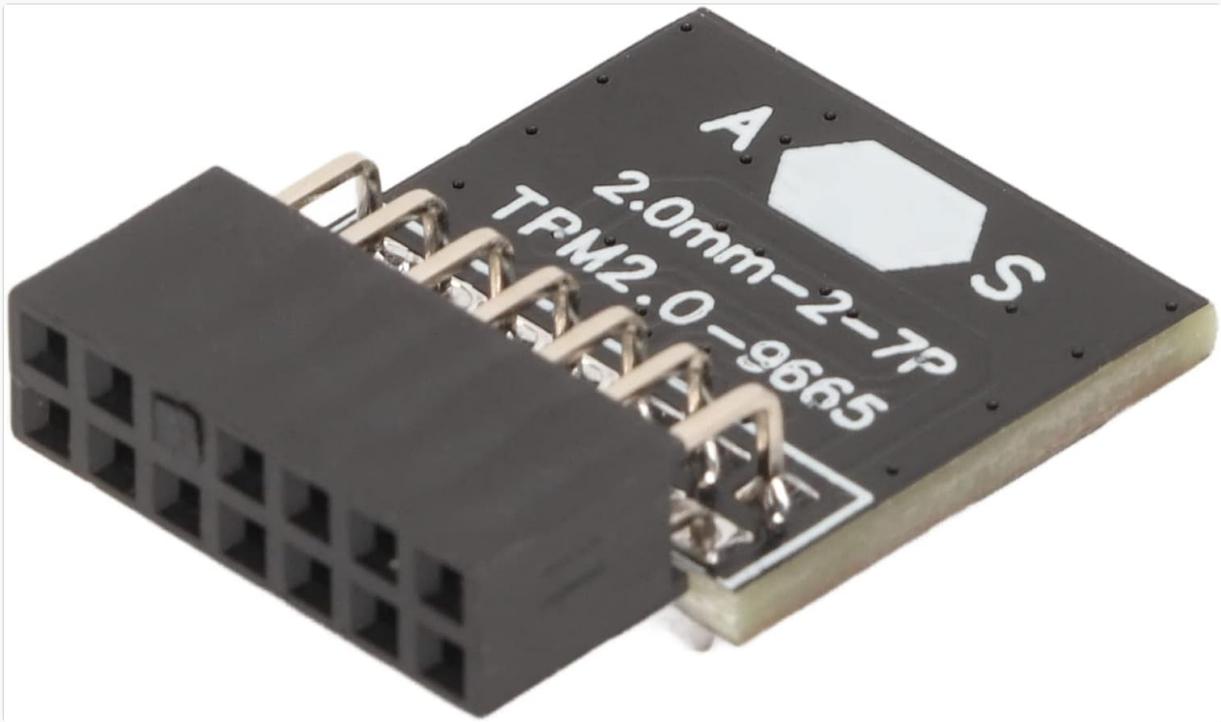
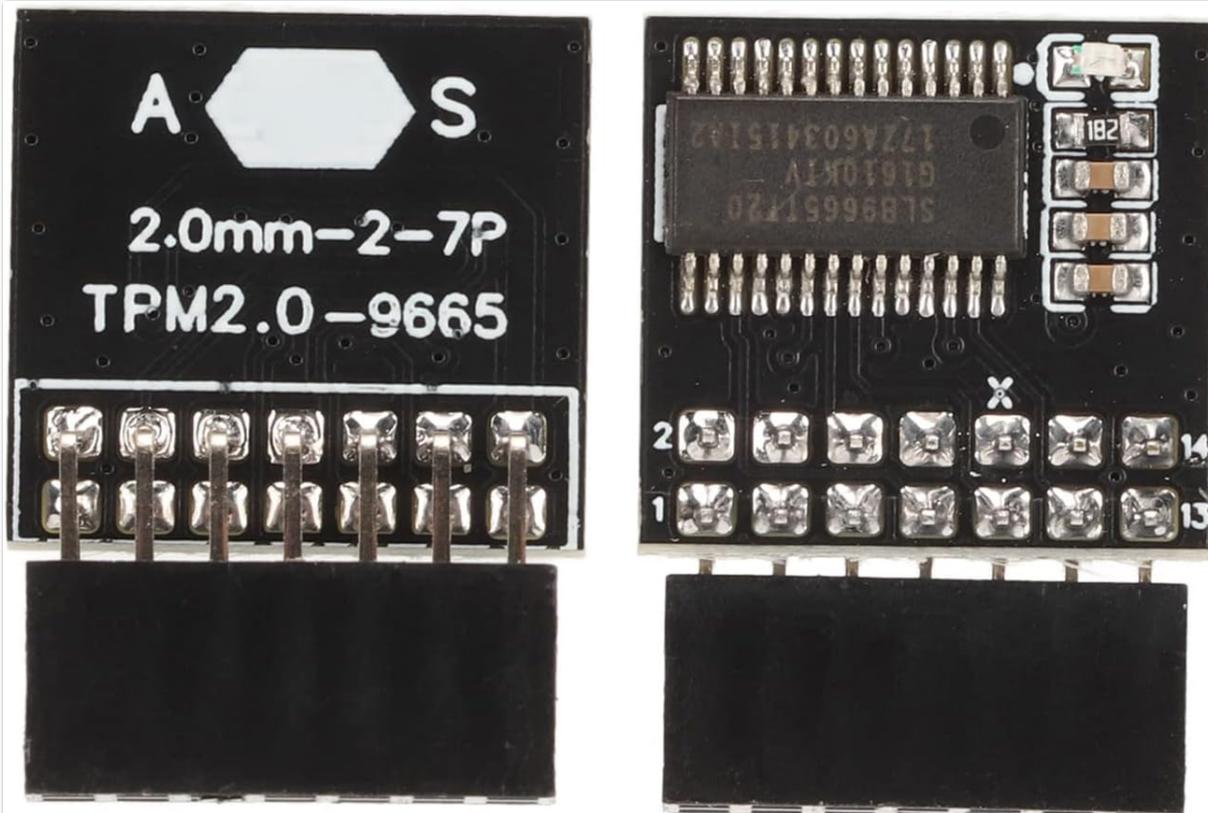


Image: The Bewinner TPM 2.0 Module Chip, showing its compact size and 14-pin connector.



## LPC 14 Pin for ASUS

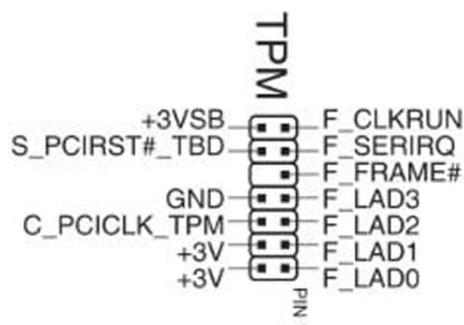


Image: Detailed views of the TPM 2.0 module, including its front, back, and a diagram illustrating the LPC 14-pin configuration for ASUS motherboards.

### Post-installation Steps

1. Reconnect the power cable and power on your computer.
2. Enter your motherboard's BIOS/UEFI settings. The method to access BIOS varies by manufacturer (commonly Del, F2, F10, or F12 during boot).
3. Navigate to the security or boot options and locate the TPM setting. Enable the TPM (Trusted Platform Module) or PTT (Platform Trust Technology) option. Save changes and exit BIOS.
4. Once your operating system loads, you can verify the TPM status. In Windows, search for 'tpm.msc' or check 'Device Security' in Windows Security settings.

### Operating

The TPM 2.0 module operates in the background to provide hardware-based security. It is primarily used for:

- **Disk Encryption:** Software like Microsoft BitLocker utilizes the TPM to securely store encryption keys, ensuring that your hard drive's contents remain encrypted and protected from unauthorized access.

- **Secure Boot:** The TPM contributes to the Secure Boot process, verifying the integrity of the boot path to prevent malicious software from loading during startup.
- **System Integrity:** It helps verify the integrity of the system's hardware and software configuration.

The module supports various operating systems:

- Windows 7 (64-bit)
- Windows 8.1 (32-bit and 64-bit)
- Windows 10 (64-bit)
- Windows 11 (64-bit)



Image: The TPM 2.0 module, highlighting its compatibility with Windows 7, 8.1, and 10 (64-bit versions) and its 2.0mm pitch design.

## Maintenance

The TPM 2.0 module is a robust electronic component that generally requires no user maintenance after installation. To ensure its longevity and proper function:

- Keep your computer environment clean and free of excessive dust.
- Ensure proper airflow within your computer case to prevent overheating of components.
- Avoid physical impact or bending of the module once installed.
- Do not attempt to clean the module with liquids or abrasive materials.

## Troubleshooting

### Common Issues and Solutions

- **TPM Module Not Detected:**
  - Ensure the module is correctly and firmly seated in the motherboard's TPM header.
  - Verify that the TPM option is enabled in your motherboard's BIOS/UEFI settings.
  - Check your motherboard's manual for the exact location and configuration of the TPM header and settings.
- **TPM Option Not Visible in BIOS:**
  - Update your motherboard's BIOS to the latest version. Many manufacturers release BIOS updates that add or improve TPM support.
  - Some motherboards may refer to TPM as 'PTT' (Platform Trust Technology) or 'Intel PTT' in the BIOS.
- **Windows 11 Compatibility Issues After Installation:**
  - Ensure both TPM 2.0 and Secure Boot are enabled in your BIOS. Windows 11 requires both.
  - Run the PC Health Check app from Microsoft to get specific details on any remaining compatibility issues.
- **Module Appears Reworked or Damaged:**
  - If the module appears to have uncleaned flux residue, bent pins, or an incorrectly positioned keying plug, it may be a faulty or previously used unit. Contact the seller for a replacement.

### Specifications

Feature	Detail
Item Type	TPM 2.0 Module
Product Material	PCB
Colour	Black
Compatible Device	Personal Computer (PC)
Pin Definition	14pin
TPM Version	TPM 2.0
Memory Technology Support	DDR3, DDR4
Applicable Systems	Windows 7 (64-bit), Windows 8.1 (32/64-bit), Windows 10 (64-bit), Windows 11 (64-bit)

Compatible Processors	Intel Z590, H570, Q570, B560, H510 Series, Z490, H470, Q470, B460, H410 Series, Z390, Z370, H370, Q370, B365, B360, H310 Series, W480 Series, C621, C422, C246 Series; AMD X570, B550, A520 Series, X470, B450 Series, X370, B350, A320 Series, WRX80 Series
Package Dimensions	3.43 x 2.24 x 0.28 inches
Item Weight	0.634 ounces
Manufacturer	Bewinner
Model Name	Bewinners9rv57hbet

## Warranty and Support

For any questions, technical assistance, or warranty inquiries regarding your Bewinner TPM 2.0 Module, please contact Bewinner customer support. Refer to the product packaging or the official Bewinner website for contact information.

You can also visit the [Bewinner Store on Amazon](#) for more information and support resources.