

# HW-069 4 Digits 7 Segment Display Module with 0.36 Inch Time Clock TM1637 Driver – Product Description

## Introduction

The **HW-069 4 Digits 7 Segment Display Module (0.36 Inch, TM1637 Driver)** is a compact and reliable display solution widely used in electronics projects for showing numerical data such as time, counters, voltages, or sensor values. Designed with the **TM1637 driver IC**, this module provides an easy interface with microcontrollers like **Arduino, Raspberry Pi, ESP32, STM32, and other development boards**, making it a popular choice for hobbyists, students, and engineers.

With its bright **4-digit red LED display**, simple wiring, and efficient driver circuit, the HW-069 module is perfect for **digital clocks, stopwatches, timers, counters, and scoreboards**. It provides excellent visibility, low power consumption, and reliable performance, making it an essential component for both DIY and professional projects.



## Key Features

- **4-Digit 7-Segment Display:** Clearly displays numerical values such as time, counters, and measurements.
- **Compact Size:** Features a **0.36 inch LED display** with excellent brightness.
- **TM1637 Driver IC:** Simplifies wiring and reduces the number of pins required for microcontroller connections.
- **Easy Interface:** Requires only **2 digital pins** for communication with Arduino or other boards.
- **Multiple Applications:** Ideal for clocks, timers, counters, and data monitoring systems.
- **Low Power Consumption:** Efficient design ensures long-term operation with minimal power usage.
- **Bright LED Digits:** Provides clear visibility even in low-light environments.
- **Durable PCB Module:** Built with quality materials for reliable and consistent performance.

## Technical Specifications

- **Module Type:** 4-Digit 7-Segment Display Module
- **Model:** HW-069
- **Driver IC:** TM1637
- **Digit Count:** 4 digits
- **Segment Type:** Common cathode
- **Display Size:** 0.36 inch per digit
- **LED Color:** Typically red (other colors may be available)
- **Operating Voltage:** 3.3V – 5V DC
- **Interface Pins:** CLK (Clock), DIO (Data), VCC, GND
- **Microcontroller Compatibility:** Arduino, Raspberry Pi, ESP8266, ESP32, STM32, AVR, PIC, and more
- **Dimensions:** Compact PCB for easy mounting in DIY or embedded projects

## Applications

The **HW-069 TM1637 Display Module** can be used in a wide variety of projects, including:

1. **Digital Clocks & Timers** – Display real-time clock values or countdown timers.
2. **Stopwatches** – Useful in robotics or sports-related DIY projects.
3. **Counters & Scoreboards** – Display counts in experiments, events, or games.
4. **Sensor Data Display** – Show values such as temperature, voltage, or distance from sensors.
5. **Arduino Projects** – Beginner-friendly display for various DIY electronic projects.
6. **Educational Kits** – Perfect for teaching numerical display and microcontroller interfacing.

## Advantages of HW-069 TM1637 Display Module

- **Easy Integration:** Only two pins (CLK and DIO) are needed for communication.
- **Wide Compatibility:** Works with Arduino libraries and Raspberry Pi scripts.
- **Clear Readability:** Bright LED digits are visible in most lighting conditions.
- **Compact Design:** Saves space in DIY enclosures and embedded systems.
- **Reliable Driver IC:** TM1637 ensures stable communication and flicker-free display.

## Why Choose This Module?

The **HW-069 4-Digit 7-Segment Display Module with TM1637 driver** is an excellent choice for anyone who needs a **simple, affordable, and reliable display solution**. Unlike raw 7-segment displays that require complex wiring, this module comes with an integrated driver, reducing wiring complexity and programming effort.

It is ideal for **beginners** who want to display numbers in Arduino projects, as well as for **professionals** who need compact, durable display modules for embedded systems. Its **0.36 inch digits** strike the perfect balance between size and visibility, making it useful in both handheld devices and larger projects.



## Conclusion

The **HW-069 4 Digits 7 Segment Display Module with 0.36 Inch TM1637 Driver** is a reliable, easy-to-use, and versatile display solution for electronics enthusiasts and professionals alike. With its **simple interface, wide compatibility, and bright LED digits**, it is perfect for creating digital clocks, counters, timers, and sensor displays.

☞ **Get your HW-069 TM1637 7-Segment Display Module today and make your projects more interactive with clear and precise numerical displays!**