

uxcell 1838

# uxcell 1838 Infrared Remote Control Receiver Module Instruction Manual

Model: 1838 | Brand: uxcell

## 1. INTRODUCTION

The uxcell 1838 Infrared Remote Control Receiver Module is a miniaturized component designed for receiving infrared signals. It facilitates infrared remote control functionality and infrared data transmission in various electronic applications. This module is suitable for integration into a wide range of devices, including AV equipment and home appliances.

## 2. PRODUCT FEATURES

- **Product Name:** Infrared Remote Control Receiver Module
- **Model Number:** 1838
- **Supply Voltage:** 2.7V to 5.5V DC
- **Reception Distance:** 15 to 18 meters
- **Compact Design:** Miniaturized for space-saving integration
- **Wide Application:** Compatible with AV equipment (MD audio, TV, VCR, CD, DVD) and home appliances (air conditioners, fans)
- **Material:** Constructed from durable plastic and alloy components
- **Package Content:** Includes 2 units of the Infrared Remote Control Receiver Module

## 3. SPECIFICATIONS

Specification	Value
Product Name	Infrared Remote Control Receiver Module
Model Number	1838
Supply Voltage	2.7V - 5.5V

Specification	Value
Reception Distance	15 - 18 meters
Body Size (L x W x H)	0.7 x 0.7 x 0.5 mm
Pin Length	22 mm
Pin Pitch	2.54 mm
Material	Plastic, Alloy
Weight (per module)	2g
Connectivity Technology	Infrared
Compatible Devices	TV (Universal)
Product Model Number (Manufacturer)	a12052800ux0240
ASIN	B00AFVIX7Q
Package Dimensions	14.22 x 9.65 x 0.25 cm
Item Weight (Package)	99.79 g (0.22 Pounds)

## 4. SETUP AND INSTALLATION

This module is designed for integration into custom electronic circuits. Installation typically involves soldering the module's pins to a circuit board.

### 4.1 Pin Identification

- **VCC:** Power supply input (2.7V - 5.5V)
- **GND:** Ground connection
- **OUT:** Infrared signal output

### 4.2 Connection Guidelines

1. Ensure the power supply voltage is within the specified range of 2.7V to 5.5V.
2. Connect the VCC pin to the positive terminal of your power supply.
3. Connect the GND pin to the ground of your circuit.
4. Connect the OUT pin to the input of your microcontroller or signal processing circuit.
5. Carefully solder the pins to avoid short circuits or damage to the module.



Image 1: Two uxcell 1838 Infrared Remote Control Receiver Modules. These modules feature a compact, rectangular metal casing with a dark, translucent dome on top for infrared reception and three metal pins extending from the bottom for electrical connections.

## 5. OPERATING INSTRUCTIONS

---

Once properly connected and powered, the uxcell 1838 module will continuously scan for incoming infrared signals. When an infrared signal, such as from a remote control, is detected within its reception range (15-18 meters), the module will output a corresponding electrical signal on its OUT pin.

- The output signal typically requires decoding by a microcontroller or dedicated IR decoder IC to interpret the commands sent by the remote control.
- Ensure a clear line of sight between the infrared remote control and the module for optimal performance.



Image 2: This image displays two uxcell 1838 Infrared Remote Control Receiver Modules, similar to Image 1. Additionally, it includes a small inset picture showing a module being held between two fingers, illustrating its compact size and scale for practical applications.

## 6. MAINTENANCE

---

The uxcell 1838 Infrared Remote Control Receiver Module requires minimal maintenance. Adhere to the following guidelines to ensure longevity and reliable operation:

- **Keep Clean:** Periodically clean the translucent dome of the module with a soft, dry cloth to prevent dust or debris from obstructing infrared reception.
- **Avoid Moisture:** Protect the module from moisture and liquids, as this can cause electrical damage.
- **Temperature Control:** Operate and store the module within standard environmental temperatures. Avoid extreme heat or cold.
- **Handle with Care:** Avoid applying excessive force to the pins or the module body during installation or handling.

## 7. TROUBLESHOOTING

---

If you encounter issues with the Infrared Remote Control Receiver Module, consider the following troubleshooting steps:

- **No Signal Reception:**
  - Verify that the module is correctly wired (VCC, GND, OUT).
  - Check the power supply voltage to ensure it is within the 2.7V-5.5V range.
  - Ensure the remote control is functioning correctly (e.g., check battery).
  - Confirm there are no obstructions between the remote and the module.
- **Short Reception Range:**
  - Ensure the module's dome is clean and free from dust or smudges.
  - Minimize sources of infrared interference (e.g., direct sunlight, strong incandescent lights).
  - Verify the remote control's infrared emitter is clean and functional.
- **Erratic Behavior:**
  - Check for loose connections or poor solder joints.
  - Ensure the power supply is stable and free from noise.
  - Review your signal decoding logic if using a microcontroller.

## 8. WARRANTY AND SUPPORT

---

Specific warranty information for the uxcell 1838 Infrared Remote Control Receiver Module is not provided in this manual. For details regarding warranty coverage, technical support, or replacement parts, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.