

ANMBEST Anmbest_MD156MAIN

ANMBEST DB25 Solderless RS232 D-SUB Serial to 25-pin Port Terminal Male Adapter Connector Breakout Board User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the ANMBEST DB25 Solderless RS232 D-SUB Serial to 25-pin Port Terminal Male Adapter Connector Breakout Board. This adapter is designed to simplify the termination of DB25 serial connections, eliminating the need for soldering and providing a robust, customizable solution for various applications.

2. PRODUCT OVERVIEW

2.1 Features

- **High-Quality Construction:** Features pure copper nickel-plated joints and fine solder points for durability and reliable contact. The outer casing is made from environmentally friendly PP engineering material.
- **Solderless Design:** Utilizes a 128-type environmental protection copper terminal design, allowing for easy wiring without the need for soldering tools.
- **High Compatibility:** Compatible with a wide range of serial devices, including computers, tax control machines, digital cameras, PLCs, PDAs, MODEMs, set-top boxes, barcode machines, and industrial instrumentation.
- **Secure Connection:** Equipped with a cable pressing plate to prevent accidental removal of connected wires and features a non-slip shell design for enhanced stability.
- **Intuitive Labeling:** All signal ports are clearly named and labeled on both sides of the board, facilitating straightforward and accurate wiring.

2.2 Components Included

The package includes the following components:

- 1 x DB25 Male Solderless Connector

- 1 x Cable pressing plate
- 2 x Screws
- 2 x Nuts
- 2 x Long bolts



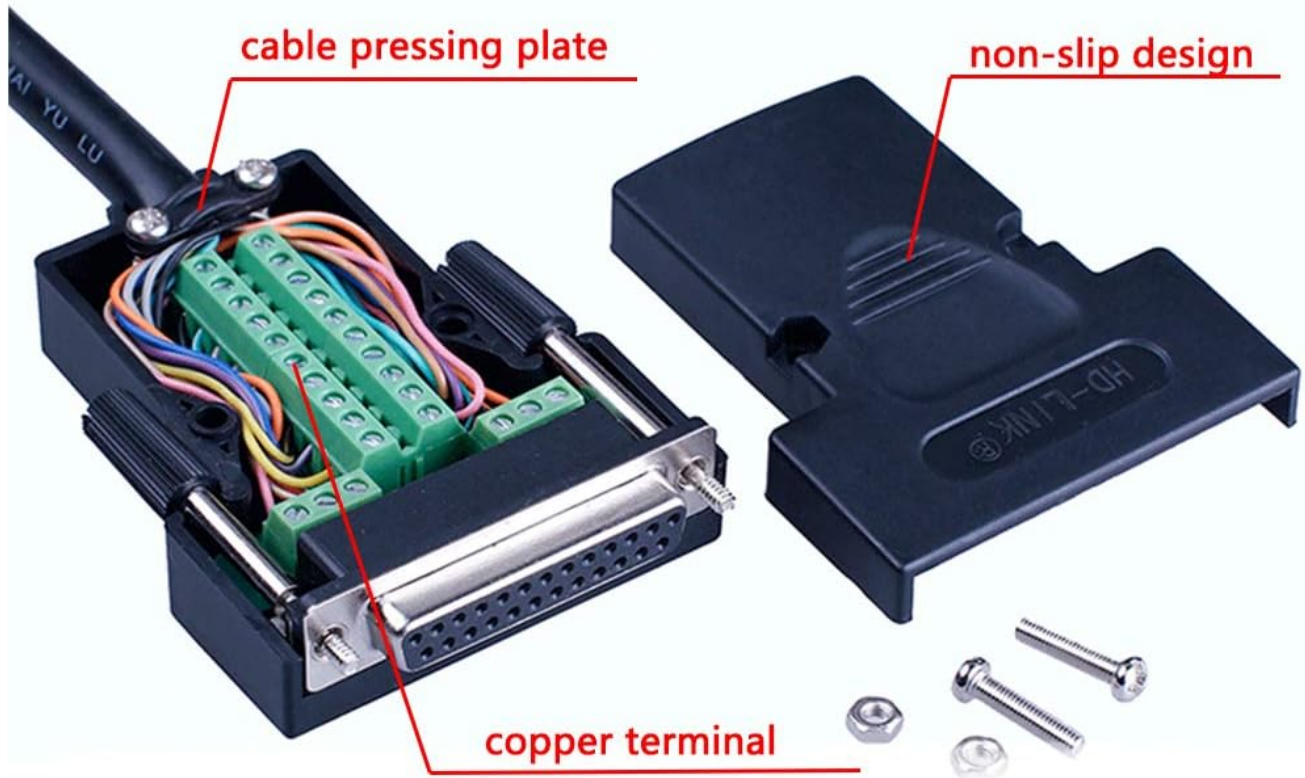
Figure 1: Exploded view of the DB25 Solderless Connector showing the main unit, housing, and included fasteners.

3. SETUP AND INSTALLATION

Follow these steps to install and connect your DB25 Solderless Connector:

1. **Open the Housing:** Carefully open the plastic housing of the DB25 connector to expose the screw terminals.
2. **Prepare Wires:** Strip the insulation from the ends of your signal wires to an appropriate length for insertion into the screw terminals.
3. **Connect Wires:** Refer to your device's pinout diagram. Loosen the screws on the desired terminals and insert the stripped wire ends. Tighten the screws securely to ensure good electrical contact.
4. **Secure Wires:** Place the cable pressing plate over the connected wires at the cable entry point. Use the provided screws and nuts to secure the cable pressing plate, preventing strain on the individual wire connections.
5. **Close the Housing:** Carefully close the plastic housing, ensuring all wires are properly routed and not pinched. The folding snap-on shell type should secure itself.
6. **Connect to Device:** Plug the assembled DB25 Male Solderless Connector into the corresponding DB25 Female port on your serial device. Use the long bolts to secure the connector to the device, if applicable.

Equipped with a set of cable pressing plate to prevent easy removal of the connected wires.



No welding required, 128 type environmental protection copper terminal design, no need for soldering iron and cumbersome tools, easy wiring.

Figure 2: Illustration of the cable pressing plate and non-slip design for secure wire management.

Fine solder joint Thickened PCB board

All signal ports are clearly named and labeled on both sides of the board

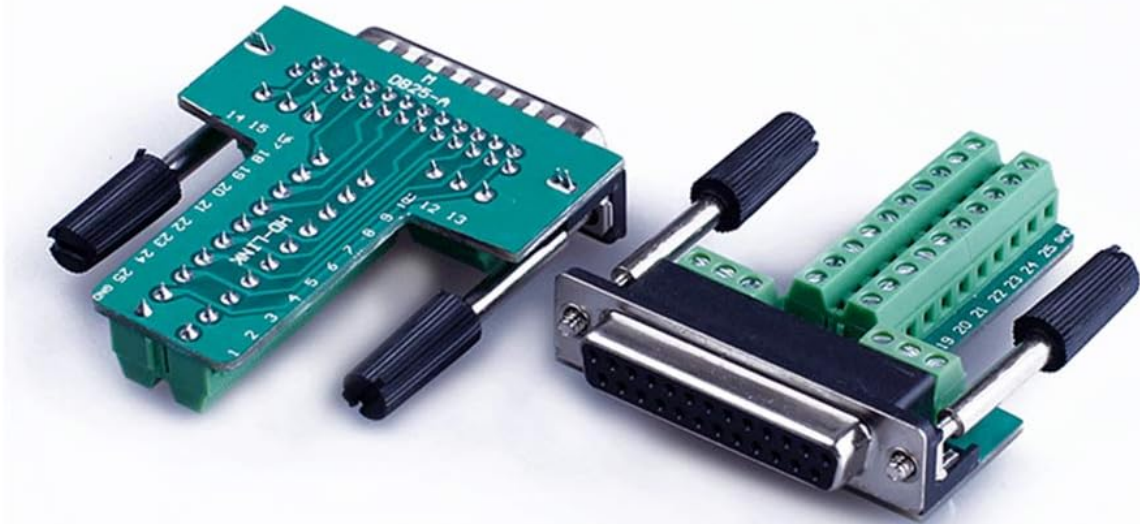


Figure 3: The PCB board with clearly labeled signal ports for easy identification during wiring.

4. OPERATING INSTRUCTIONS

Once the ANMBEST DB25 Solderless Connector is properly installed and connected to your serial device, it functions as a direct serial communication interface. Ensure that the pin assignments made during installation match the requirements of your specific application and connected devices.

The adapter facilitates data transfer between compatible serial devices. No additional software or drivers are typically required for the adapter itself, as it provides a physical connection. Any necessary software or driver installation would be for the connected serial devices (e.g., PLC, industrial instrumentation).

Video 1: An overview of the ANMBEST Serial Adapter, demonstrating its features and potential applications.



Figure 4: Examples of compatible devices and applications for the DB25 Solderless Connector.

5. MAINTENANCE

To ensure the longevity and reliable performance of your ANMBEST DB25 Solderless Connector, consider the following maintenance guidelines:

- **Cleaning:** Keep the connector free from dust and debris. Use a soft, dry cloth for cleaning. Avoid liquid cleaners that could seep into the terminals.
- **Environmental Conditions:** Store and operate the connector in a dry environment, away from extreme temperatures and direct sunlight.
- **Connection Inspection:** Periodically inspect the wire connections within the screw terminals to ensure they remain tight and secure. Re-tighten if necessary.
- **Physical Damage:** Avoid dropping or subjecting the connector to excessive force, which could damage the housing or internal components.

6. TROUBLESHOOTING

If you encounter issues with your DB25 Solderless Connector, refer to the following troubleshooting tips:

- **No Connection/Data Transfer:**

- Verify all wires are correctly inserted into their respective screw terminals and are securely tightened.
- Double-check the pinout diagram for your specific application to ensure correct signal assignments.
- Ensure the DB25 connector is fully seated and secured to the device's port.
- Test the connected serial cable for continuity if possible.

- **Intermittent Connection:**

- Inspect for loose wire connections within the screw terminals.
- Check for any physical damage to the cable or the connector itself.
- Ensure the cable pressing plate is securely fastened to prevent wire movement.

- **Physical Fit Issues:**

- If the connector does not fit properly with another device, ensure both are standard DB25 types (male/female compatibility).
- Check for any obstructions or debris in the port.

7. SPECIFICATIONS

| Attribute | Specification |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Product Name | DB25 Solderless Module |
| Plug Type | Male |
| Connector Material | Pure copper nickel plated joints |
| Contact Material | Copper |
| Housing Material | Environmentally friendly PP engineering materials |
| Shell Type | Folding snap-on |
| Cable Port Opening Size | 10.5 mm (0.39 inches) |
| Product Dimensions (L x W x H) | 74 mm x 57 mm x 26 mm (2.91" x 2.24" x 1.02") |
| Item Weight | 2.39 ounces |
| Compatible Devices | Tax control machine, digital camera, PLC, PDA, MODEM, set-top box, barcode machine, industrial instrumentation, etc. |

**SIZE:74 mm×57 mm×26 mm
/ 2.91"×2.24"×1.02"**

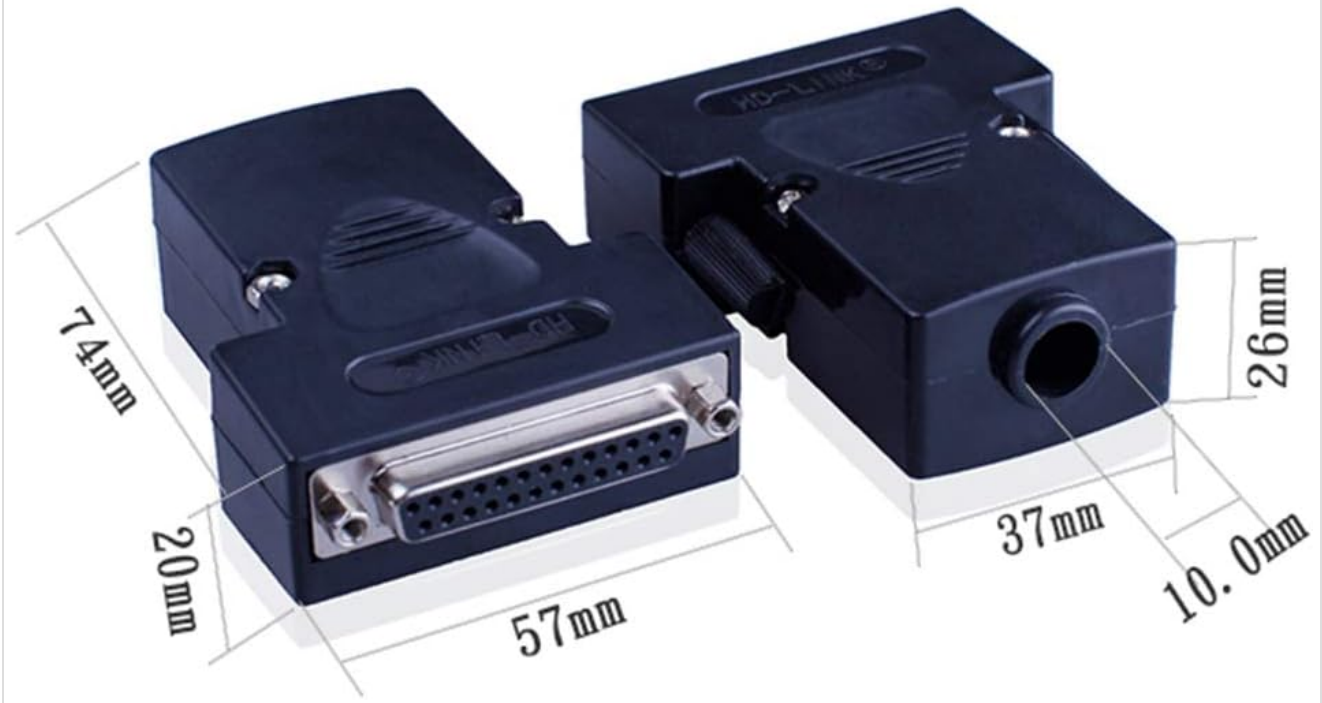


Figure 5: Dimensional drawing of the ANMBEST DB25 Solderless Connector.

8. SAFETY INFORMATION

Please observe the following safety precautions:

- Always ensure that power to connected devices is turned off before making or breaking electrical connections to prevent electrical shock or damage to equipment.
- Do not exceed the specified voltage and current ratings for the components used in your serial communication setup.
- Avoid exposing the connector to moisture or corrosive environments.
- Keep out of reach of children.

9. WARRANTY AND SUPPORT

For product support, technical assistance, or warranty inquiries, please contact ANMBEST customer service through the retailer where the product was purchased or visit the official ANMBEST website for contact information. Please have your product model number (Anmbest_MD156MAIN) and purchase details available when contacting support.

