# Breadboard 840 Point (Splitted Power Rails)

The **Breadboard 840 Point with Splitted Power Rails** is a must-have tool for anyone working in electronics, robotics, prototyping, or educational projects. Designed for flexibility, durability, and ease of use, this solderless breadboard allows you to design, build, and test circuits without the need for permanent connections. With 840 tie points and clearly marked split power rails, it provides ample space for both simple and complex circuits, making it ideal for students, hobbyists, and engineers.
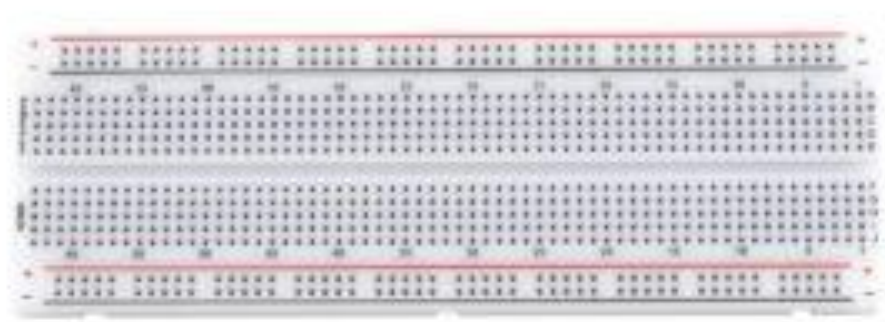
⬥ Large 840 Tie Points for Complex Circuits

This **840-point breadboard** offers a spacious working area that can accommodate multiple components, sensors, ICs, and jumper wires. The central area is organized into rows and columns for easy placement of components, while the outer rails provide power distribution. This large size makes it suitable for complex circuits and larger projects, unlike smaller boards that can be restrictive.

### ⬥ Splitted Power Rails for Flexible Power Supply

One of the key features of this breadboard is the **splitted power rails**. Instead of having a continuous line, the rails are split into two sections, allowing you to use multiple voltage levels (e.g., 3.3V and 5V) on the same breadboard. This feature is especially useful when working with microcontrollers, sensors, and modules that require different operating voltages. The split rails give you flexibility and better organization of power connections.

◈ No Soldering Required – Reusable Design

The **Breadboard 840 tie points** is completely solderless, allowing you to insert and remove components without damaging them. This makes it ideal for prototyping, testing, and educational environments where experimenting is encouraged. The reusable design ensures you can build, dismantle, and rebuild circuits as many times as needed.

◈ High-Quality Construction

Built with **ABS plastic housing** and **phosphor bronze nickel-plated contacts**, this breadboard ensures durability and reliable conductivity. The spring-loaded clips inside provide a strong grip for jumper wires and component leads, ensuring secure connections. It is designed to handle frequent insertions and removals, making it suitable for both beginners and professionals.
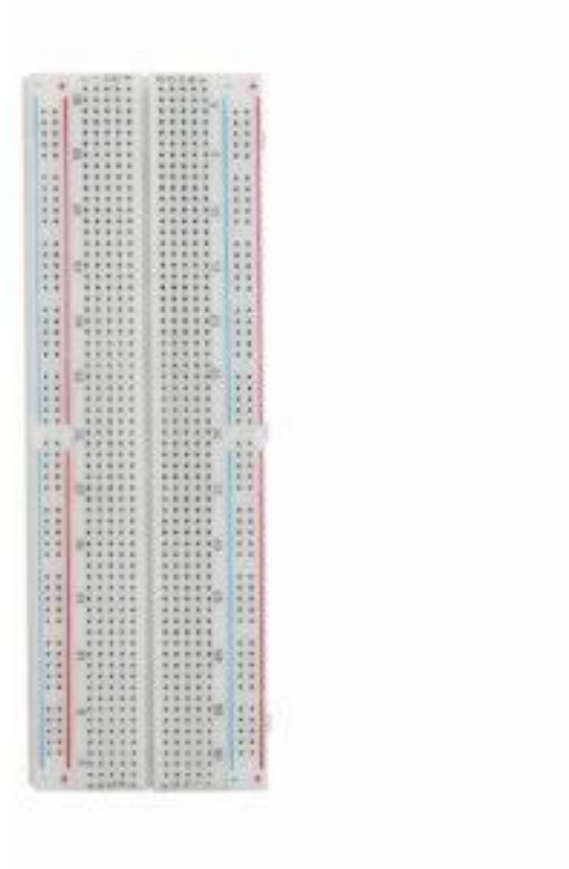
⬧ Compatible with Arduino, Raspberry Pi, and More

The **840-point breadboard with splitted power rails** is fully compatible with **Arduino boards, Raspberry Pi, ESP32, ESP8266, microcontrollers, and other development platforms**. Whether you're building an LED matrix, motor controller, sensor system, or IoT project, this breadboard provides the flexibility and space required for rapid prototyping.

⬧ Easy to Use in Learning and Teaching

For students and beginners, breadboards are an excellent way to learn the fundamentals of electronics. Teachers and trainers frequently use breadboards in workshops and classrooms because they allow learners to quickly test concepts and build functional circuits without soldering. The **840-point breadboard** is large enough for complex lessons but still manageable for beginners.
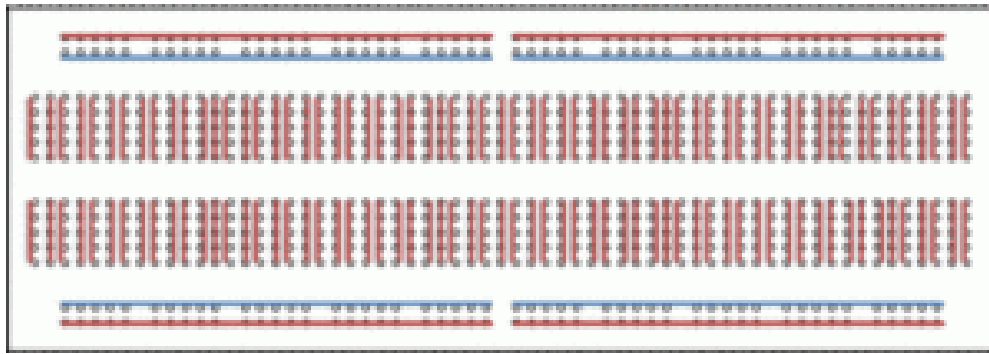
⬥ Expandable for Larger Projects

Thanks to its **interlocking design**, this breadboard can be connected side-by-side with other breadboards to create even larger prototyping areas. If your project outgrows a single breadboard, you can easily expand without starting from scratch.
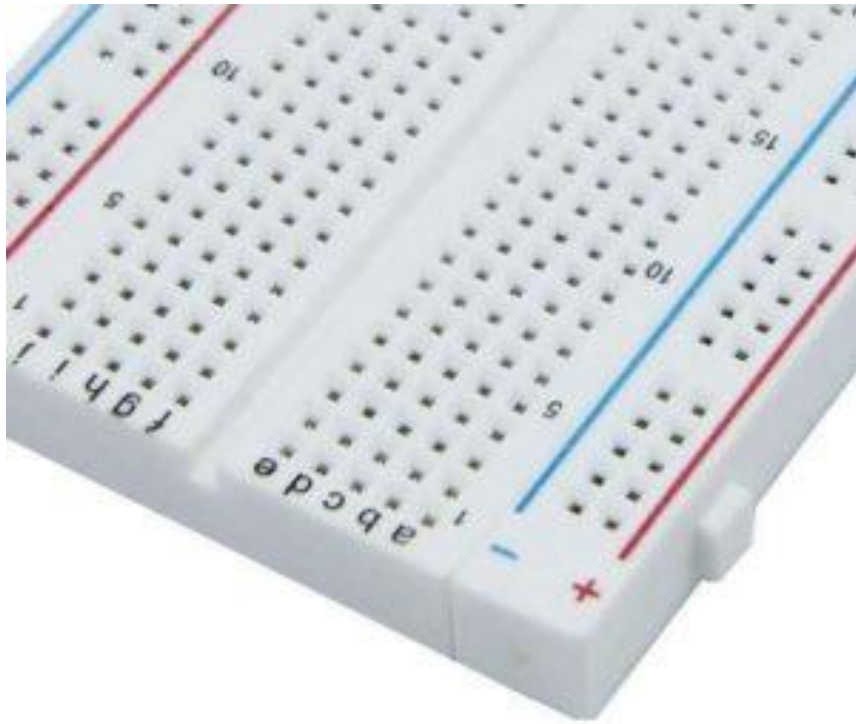
⬥ Applications of Breadboard 840 Point (Splitted Power Rails)

This breadboard can be used in a wide range of applications, including:

- **Educational Training**: Teaching students about circuits, microcontrollers, and digital/analog electronics.
- **Prototyping**: Testing new designs and ideas before making a permanent PCB.
- **DIY Projects**: Building LED systems, robotics, IoT devices, and hobby circuits.
- **Troubleshooting**: Quickly assembling temporary test circuits for diagnostics.
- **Research and Development**: Engineers can rapidly test circuit modifications.

⬥ Technical Specifications

- **Model:** Breadboard 840 Points (Splitted Power Rails)
- **Tie Points:** 840 total
- **Power Rails:** Split design for multiple voltage levels
- **Material:** ABS plastic with phosphor bronze contacts
- **Dimensions:** Approx. 16.5cm × 5.5cm × 0.9cm
- **Compatibility:** Arduino, Raspberry Pi, ESP32, ESP8266, and various sensors/modules
- **Mounting:** Adhesive backing and interlocking edges for expansion

✓ Conclusion

The **Breadboard 840 Point (Splitted Power Rails)** is an essential tool for anyone working in electronics. With its spacious 840 tie points, durable construction, and flexible power rail design, it provides the perfect balance between functionality and convenience. Whether you are a student learning electronics, a hobbyist working on DIY projects, or a professional engineer developing prototypes, this breadboard will help you build and test circuits quickly and efficiently.

If you want a reliable and versatile prototyping platform, the **Breadboard 840 Point with Splitted Power Rails** is the right choice for your toolkit.