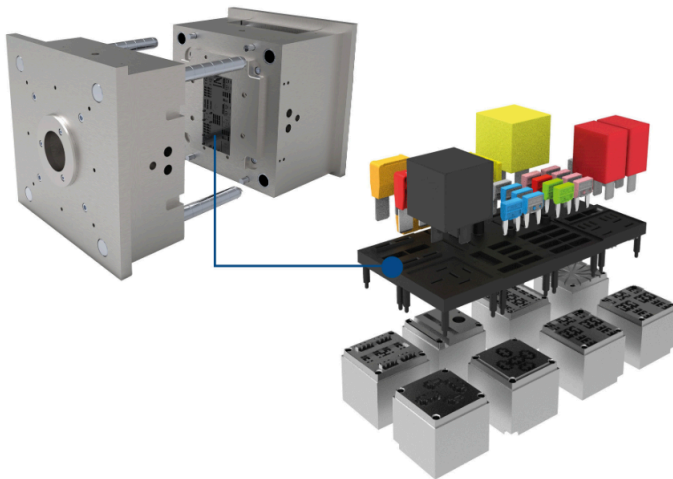
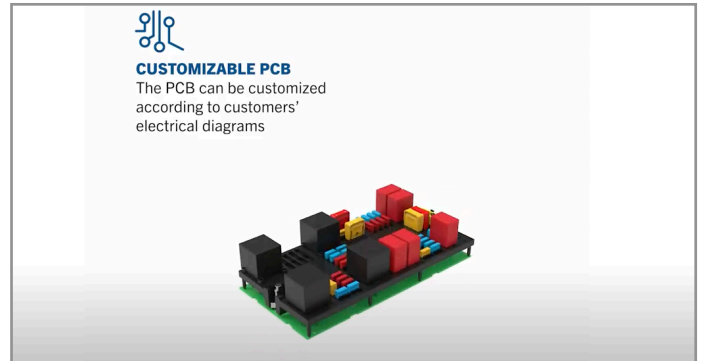


Cube Box

With the Cube Box the customer is given the opportunity to create its own Power Distribution Unit with reduced costs and short time-to-market

In the ever-evolving automotive industry, the demand for modularity, flexibility, and customization in electrical systems continues to grow. Today MTA has introduced a groundbreaking solution: the Cube Box.



1. Customization starts from the injection mold

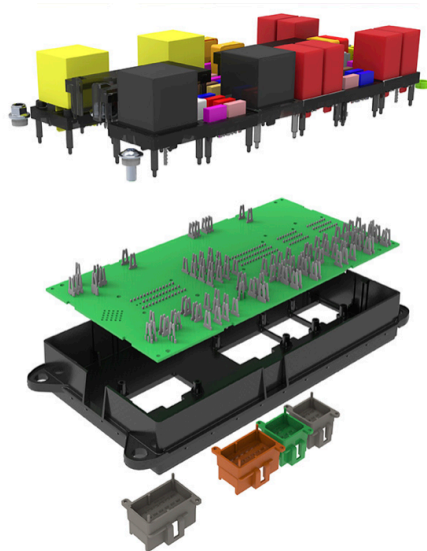
At the heart of the Cube Box concept is a thermoplastic injection mold designed to accommodate movable inserts. These inserts, each measuring **35x35 mm**, can be freely positioned and oriented within the mold to create a **customized fuse and relay mask**. This modular approach allows manufacturers to generate a virtually infinite number of configurations using a single mold.

2. The mask can have different sizes and geometries

The masks can have different sizes and geometries up to a total of 35 modules (7x5) selected from the range available, offering extensive configurability.

The customers can choose housings for all of our different blade fuse types, Mini, Uni, Maxi, M8Compact and MaxiCompact; for Mini, Micro and Maxi Relays and some accessories too. If necessary, it is also possible to provide for the use of screw-type power fuses, which will be bolted directly on the PCB.





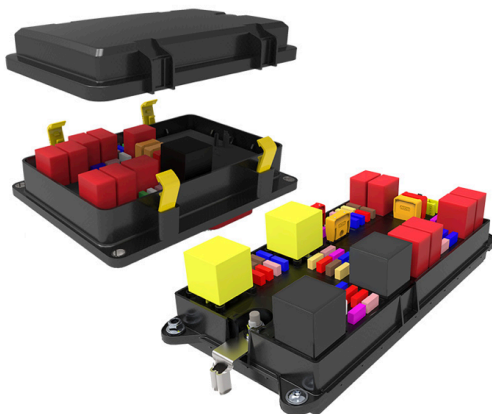
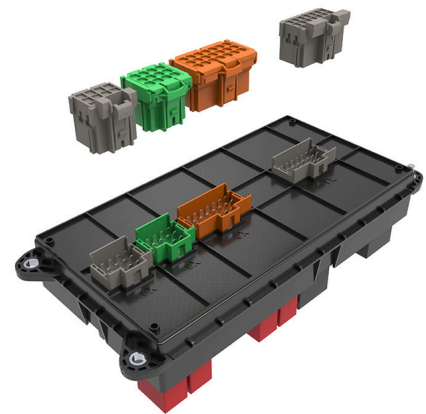
3. The printed circuit board

The PCB itself is fully customizable to match the specific electrical architecture and pinout of the target application.

MTA employs **press-fit technology** for assembling fork-type contacts and output connector tabs, ensuring reliable and vibration-resistant connections without the need for soldering. This technique not only improves production efficiency but also enhances the durability of the final product.

4. Top or bottom side connectors

The positioning of the connectors is fully customizable. Depending on the customer's requirements, connectors can be placed on the **top** or **bottom** of the unit, allowing for optimal cable routing and space utilization.



5. Cabin or Engine Bay

The Cube Box is available in **open and sealed versions**, depending on the environmental requirements of the application. The sealed version is particularly suited for engine bay installations, where exposure to moisture, dust, and temperature fluctuations is a concern. The Cube Box meets stringent protection standards, offering **IP67/IP6K9K** ratings that ensure reliable operation even in harsh conditions.