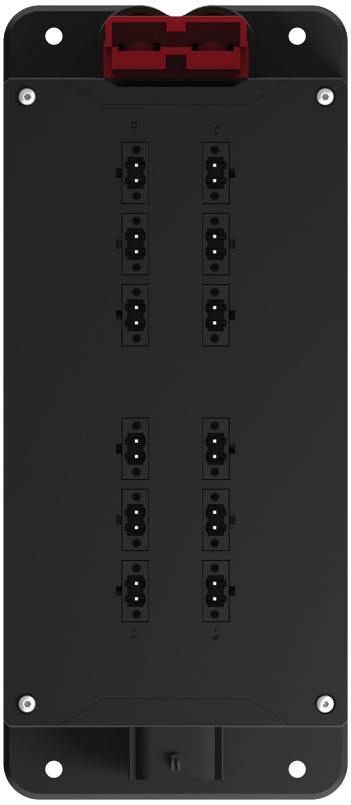
FLUX PDS

FLUX PDS (Power Distribution System) is a flexible and easy-to-use solution with a compact design, ideal for powering instrumentation, computers, car motors, radars, and sensors of a test vehicle. The FLUX PDS boasts the following features:

- 12 automotive independent DC relay channels,
- A cooling fan,
- Internal temperature sensors for temperature monitoring.

The onboard computer controls the power sequencing and continuously monitors each of the 12 channels. It reports on electrical current, current consumption, and health status. Designed with a commonly used communication interface, the system supports drive-by-wire autonomous vehicle research, advanced driver assistance systems experimentation, and any automotive electronics testing.

Features



12 Channels at 15A Each, 150A Max:

The FLUX PDS offers 12 independent DC relay channels, each capable of delivering up to 15A of current, with a maximum of 150A across all channels.

9-30 V Operating Voltage:

The system is designed to operate within a voltage range of 9-30V, making it suitable for a wide range of test vehicles.

Groupable Channels:

The system's channels can be grouped together to provide higher current delivery capabilities.

CANBUS Communication:

The FLUX PDS supports CANBUS communication with selectable baud rates such as 125kbps, 250kbps, 500kbps, and 1000bps, making it easy to integrate with other systems.

Current Sensing and Measurement:

The system continuously monitors each channel's electrical current, ampere-hour, and health status, providing valuable diagnostics information.

Diagnostics and Safety Protections:

The system includes a range of diagnostics and safety protections, including overvoltage, undervoltage, overcurrent, short circuit, and over-temperature protection.

Air Cooling:

The FLUX PDS is equipped with a cooling fan to ensure optimal performance under heavy loads.

ROS2 Driver:

The system is compatible with ROS2, making it ideal for use in drive-by-wire autonomous vehicle research, advanced driver assistance systems experimentation, and other automotive electronics testing.

Changeable Relays:

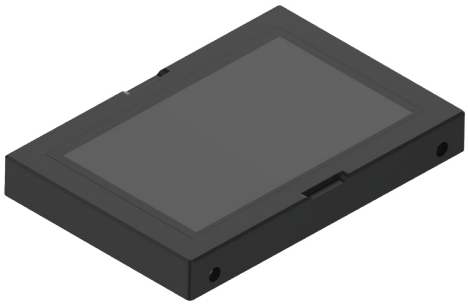
The FLUX PDS is equipped with high-quality automotive relays, ensuring reliable operation under demanding conditions.

5" Capacitive Touch Screen:

The FLUX PDS features a 5" capacitive touch screen for easy operation and monitoring.

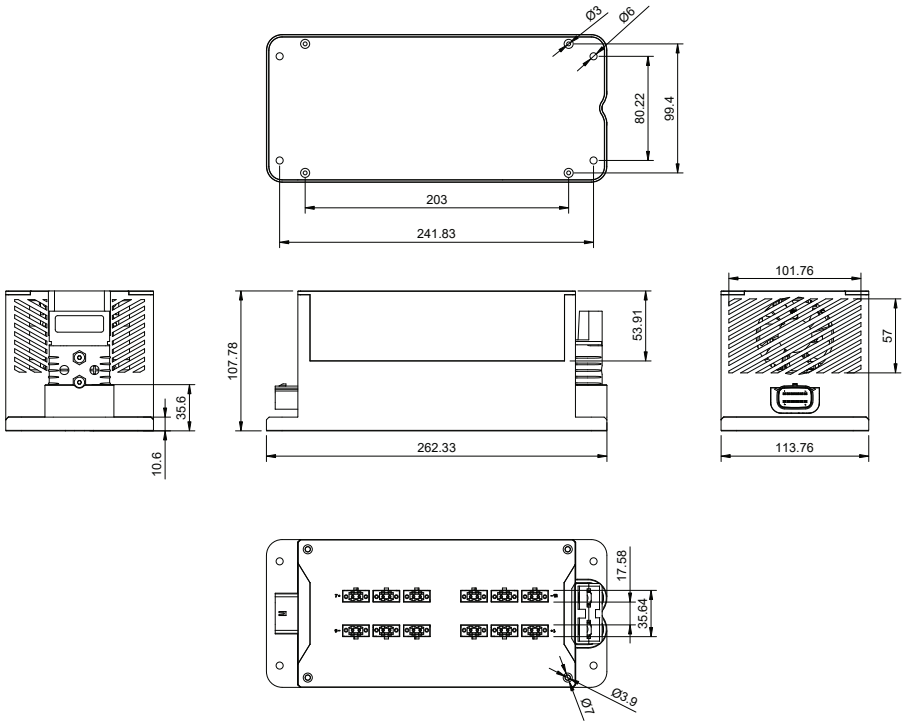
Windows UI:

The system's user interface is built on Windows, ensuring a user-friendly and recognizable experience. It offers several features such as graphing, script creation for startup and shutdown, channel naming, data logging, and various other configurable settings.

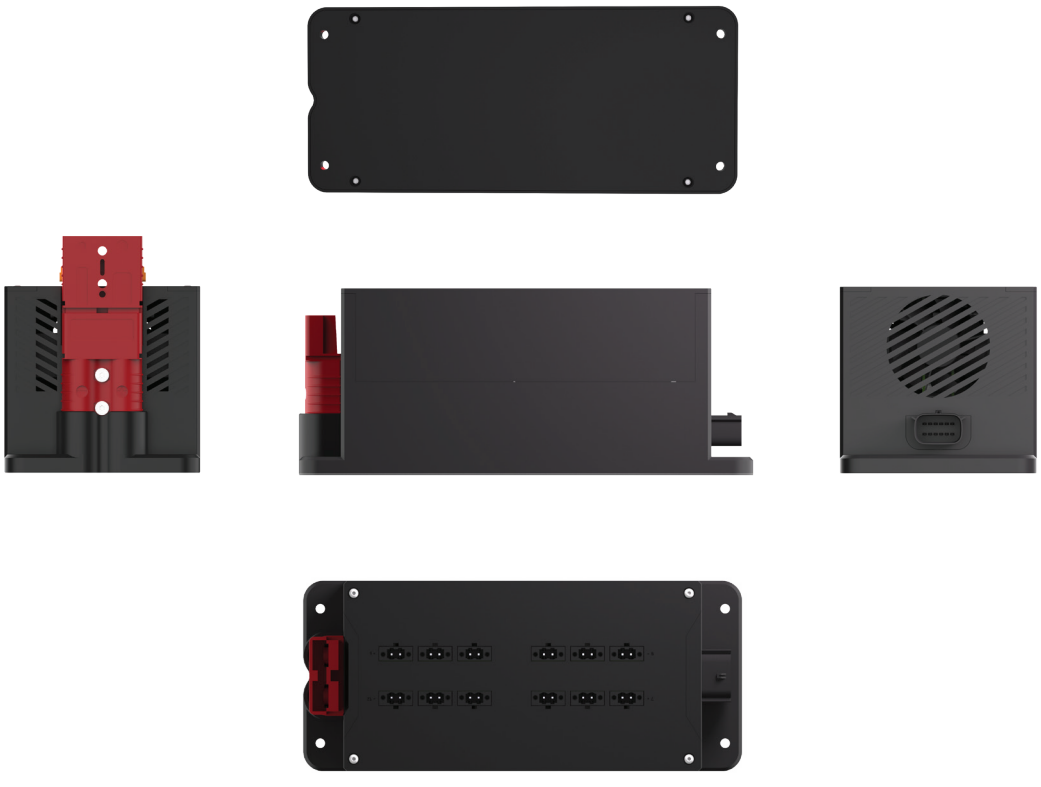


Mechanical Drawings

Box

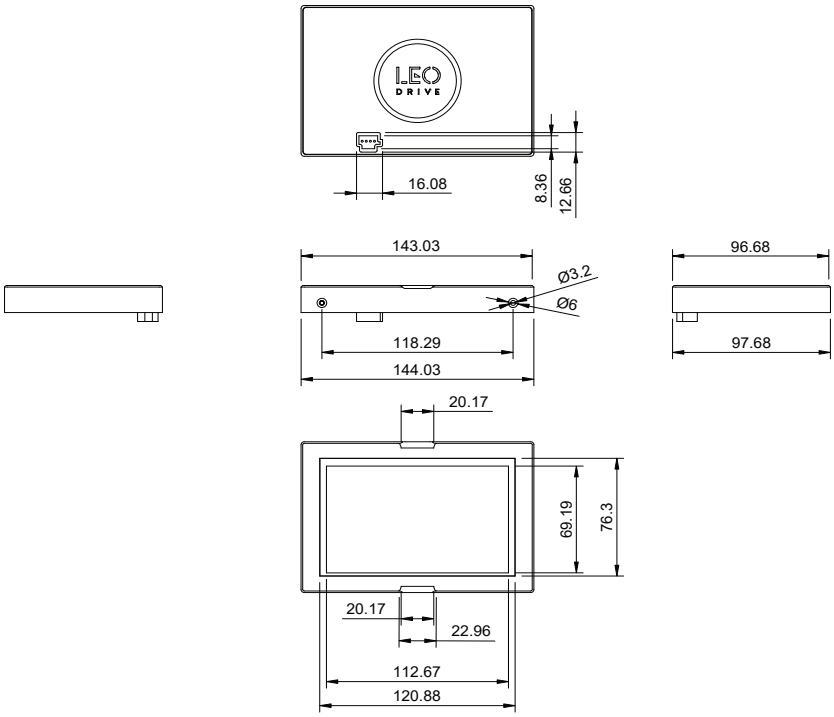


Visual



Mechanical Drawings

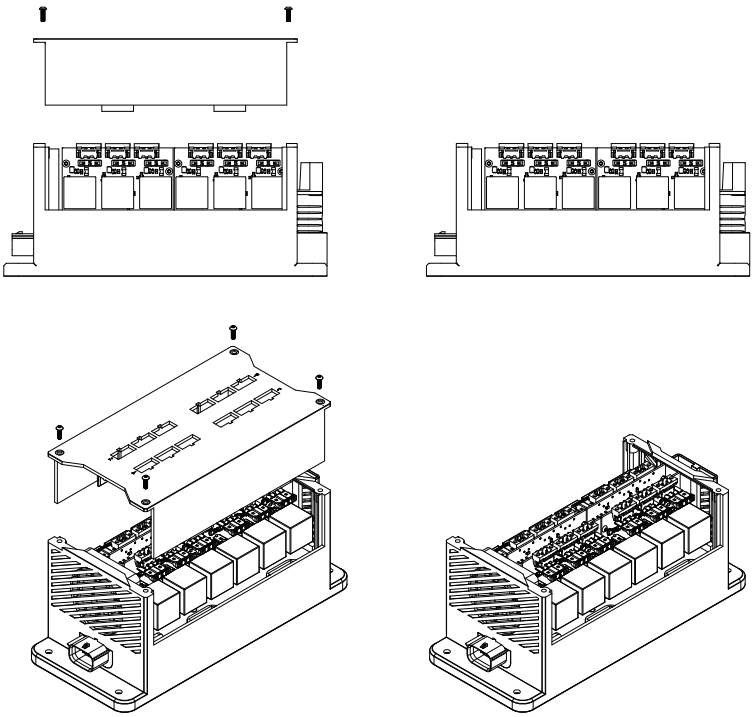
Screen



Visual

Assembly Instructions

- In case failures of relays please remove the x4 M4 screws located in the corners of the top cover. Then lift the cover up.
- After replacing the relay, replace the cover in the same way and tighten the screws.



Product Package Content

- **FLUX PDS is engineered for optimal efficiency and reliability, incorporating the following key components.**

  - Harness Connectors: These components facilitate the secure and organized connection of electrical wires and devices.
  - Touch HMI Display and Mounting Parts: A Human-Machine Interface (HMI) display that supports touch input for interactive control and monitoring. This package includes the necessary mounting hardware for easy and secure installation.
  - Power Distribution System (PDS): An efficient solution for managing and distributing electrical power within your system. This unit is designed to streamline power delivery, enhancing the reliability and performance of your operational setup.
  - RS232 to USB Adapter: For easy connection with ROS2 and configuration purposes.

We are dedicated to transforming the transportation sector by leveraging our expertise in developing state-of-the-art autonomous vehicles. Since our establishment in 2015, we have followed a co-creation and design-win approach to customize our solutions according to the unique needs of our customers.

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