

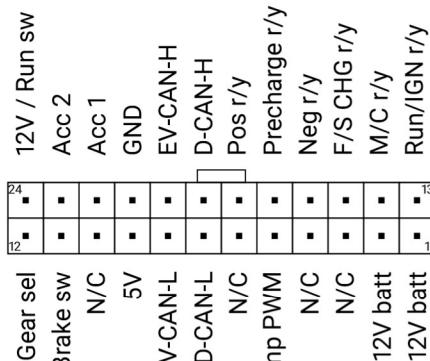
# **REV : RippleTech EV controller**

## General Description

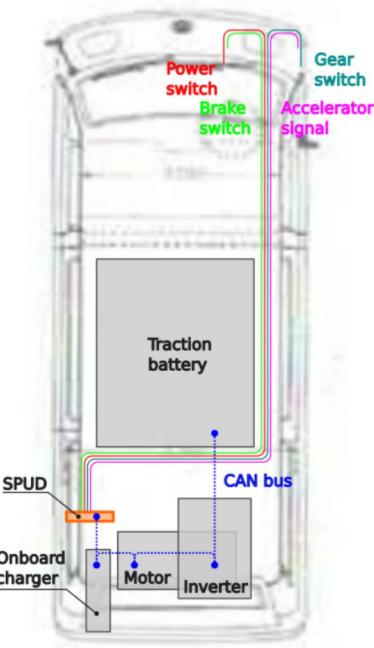
REV is a controller that has the hardware and software to drive and charge a Nissan Leaf drive train.

## Features

- Control of negative, positive and precharge relays
  - One pedal drive mode
  - Cruise control
  - On-board charging, with drive interlock
  - Gear selection (F-N-R)
  - 2 CAN buses
  - Variable speed operation of cooling pump



**Figure 1: Pinout diagram of connector (Minitek Pwr 4.2mm)**



**Figure 2:** Example of an electric drive train

#### Driving profile “on-the-fly” via CAN bus

- Driving profile selection
  - AC charge rate
  - Charge stop level %

## Dash via CAN bus messages

- Motor speed, temp
  - Inverter temp
  - VCU status
  - Traction battery voltage and state of charge
  - Charge current and voltage
  - Odometer reading