

# SELF-SYNCHRONIZING DRIVER

## OVERVIEW

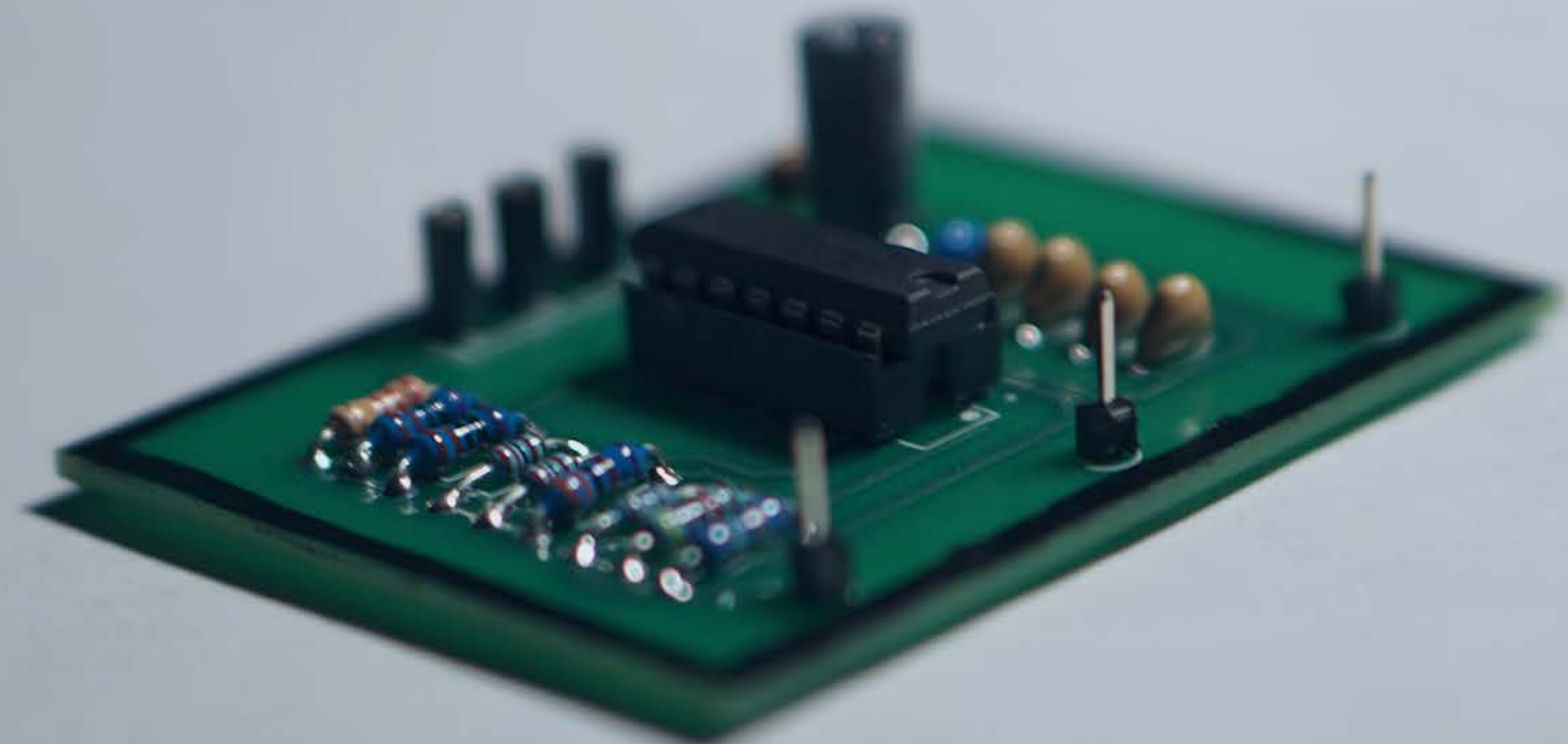
Our Self-synchronizing driver technology provides a simple and extremely low-cost hardware solution to synchronize multiple inverters, independent AC systems, electric machines with each other and the grid. The hardware readily integrates with existing AC systems, providing a fundamentally different way to synchronize. It is simple, low cost, and effective.

## SYNCHRONIZATION TODAY

Synchronization of distributed energy resources is typically achieved using sensors and costly control systems. This creates dependence on microprocessors and software in order to achieve synchronization.

## OUR SOLUTION

- Synchronization in just 2-3 cycles (1 cycle = 0.016s)
- Contains no software or MCU, just simple hardware
- Uses autonomous phase locking
- Resists permutations in voltage and frequency
- Can be applied to any size inverter
- Enables hot-pluggability
- Is incredibly low-cost



## OUR SELF-SYNCHRONIZING DRIVER ENABLES

- Automatic synchronization between power systems and the grid or other distributed energy resources.
- Connect and self-synchronize voltage, frequency, and phase within a single system or between multiple power sources at once.
- The ability to modularly add or remove (i.e. hot swap) power modules without the need to synchronize before connection or shutting the system down while a new power module is added.