

# ECOPRO - 510HV

Energy Efficiency Revolution



## Save up to 70% on your electricity bill with Technosphere's BLDC controller for ceiling fans.

Our BLDC controller uses brushless DC motors to deliver powerful airflow with less energy consumption, higher reliability, and increased safety. It is also customizable to meet your specific needs, making it the perfect choice for businesses and consumers in India.

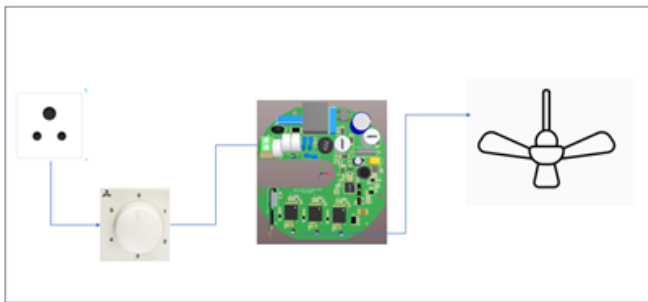
Our solution uses a unique motor drive, which provides true hardware-level protection. This means that our solution is less likely to be damaged by electrical surges or other problems, which helps extend the lifespan of your ceiling fans.

## OUR CONTROLLER OFFERS THE FOLLOWING BENEFITS

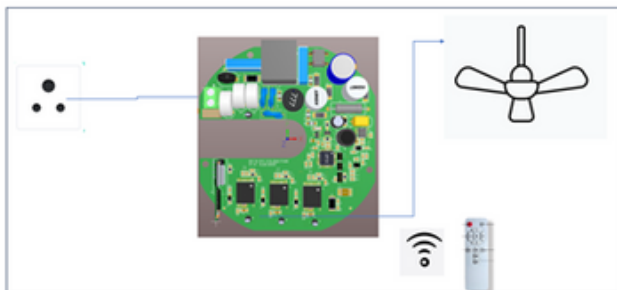


- ✓ **100% Designed and Manufactured in India:** Enabling absolute control over hardware and firmware customization while ensuring fast turn-around for specific IoT and lighting requirements, complemented by a comprehensive lab and testing facility.
- ✓ **Advanced protection, and safety:** The comprehensive protection system encompasses hardware measures against the motor stall, overload, overcurrent, and a two-tier thermal cutoff arrangement.
- ✓ **Fits seamlessly:** Our controller fits seamlessly into the ceiling fan mounting, making it easy to install and use.
- ✓ **High efficiency:** Our controller is highly efficient, helping you save money on your electricity bill.
- ✓ **Long lifespan:** Our controller is designed to last for many years, giving you peace of mind.

## CONNECTION WITH REGULATOR



## CONNECTION WITH RF REMOTE



## SPECIFICATIONS

- Power - < 32W at full speed
- Frequency - 47.50-52.50Hz ; 50Hz typical
- Motor voltage - 24, 3 Phase
- Motor current - 1.3A
- THD - < 20%
- Motor - 3 phase BLDC Sensorless
- RPM - Upto 380 rpm
- Power factor - > 0.9
- Speed control - RF Remote
  - Optional 5 Speed Regulator
- Speed Feedback - Motor Current
- Protection - Hardware Controlled
  - Over Current
  - Under Voltage
  - Over Voltage
  - Rotor Lock / Phase Open
  - 4KV Surge Protection



Contact us today to learn more about how Technosphere's BLDC controller can help you upgrade your ceiling fans and save money.