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Upcoming Trade Shows

NVE will co-exhibit with German distributor HY-LINE Power Components at **PCIM Europe**, May 9 to 11 in Nuremberg, Germany. See us at Booth 7-108.

NVE sensors will also be on display at **Sensor+Test** in cooperation with distributors Angst+Pfister Sensors and Power. Visit Booth 1-361.

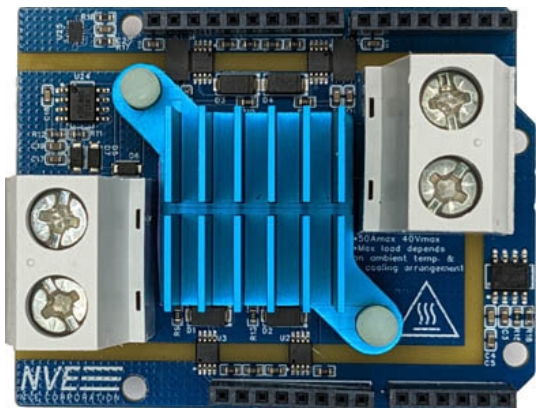
Earth Day

Earth Day is April 22. Our parts enable clean energy controls, and NVE is committed to environmental responsibility in the resource-intensive semiconductor industry [More »](#)



H-Bridge Arduino Shield

Our new H-bridge Arduino Shield can drive motors or other loads. The board uses NVE isolators and isolated DC-to-DC converters for exceptional performance and miniaturization.



The board is rated at 40 volts and 50 amps to control up to two-kilowatt loads. It has everything you needed—just add an Arduino and a power supply.

Key Features

- Standard Arduino Shield form factor outline
- A simple three-wire Arduino interface (PWM, Dir, and Enable)
- Thermal vias and heat-sinking
- EMI mitigation
- Easy connections with large screw terminals

Specifications

- Max. load: 2 kW (40 V / 50 A)
- Load supply line: 8 V to 40 V
- Arduino input supply: 7 V to 18.5 V, 500 mA max.
- Logic-to-load isolation: 2.5 kV per UL 1577
- Rds On: 1.2 mΩ typ. each MOSFET
- Operating Temperature Range: -40 °C to 85 °C
- Dimensions: 2.1 in. by 2.7 in. (53.4 mm by 68.6 mm)

Applications

- Motor speed and direction control
- Robotics
- DC-to-AC inverters

Documentation and Arduino Libraries

You can download datasheets, manuals, and an Arduino demonstration program from our [GitHub Repository](#).

In Stock

Shields are [in stock](#) for immediate delivery.

Demonstration

We demonstrated two Shields controlling an ebike motor and electric brake:

