**General Description**

This interface allows to control Imperix power modules with an Speedgoat simulator. It provides the necessary signal connections and transformations to easily wire the digital outputs of the Speedgoat hardware to the command inputs of the power modules, and retrieve any useful measurement to its analog inputs.

**Power Supply**

- 5V / +15V / -15V external supply required
- Approx. max consumption: 5W / 12W / 12W
- Recommended external supply: XP Power AEH45UM32
- Connector pinouts:
  - Main power supply connector (SD-50BV)
  - Alternative power supply connector

**Analog Inputs**

- 16 channels, RJ45 connectors, -10 to 10V input voltage
- Configurable high-Z or low-Z input (connect jumper for 100Ω low-Z)
- +15V/-15V sensor supply (max 100mA/ch, 800mA total)

**Digital Outputs**

- 8 pairs of independent channels
- Optical fiber wiring of the gating signals to Imperix PEB or PEH power modules
- Max. prop. delay difference between 2 channels: 80ns
- Signals #1, 2, 5, 6, 9, 10, 13, 14 can be duplicated with 0Ω jumpers for controlling 2 paralleled power modules with 1 digital signal

**Contact**

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**About Us**

Imperix develops high-end control equipment and prototyping hardware for power electronics, drives, smart grids and related topics. Its products are designed to accelerate the implementation of laboratory-scale power converters and facilitate the derivation of high quality experimental results.