**GENERAL DESCRIPTION**

This interface allows to control *imperix* power modules with an OPAL-RT simulator. It provides the necessary signal connections and transformations to easily wire the digital outputs of the OPAL-RT 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

  ```
  Pin 1: GND
  Pin 2: GND
  Pin 3: +5V
  Pin 4: +15V
  Pin 5: +15V
  Pin 6: GND
  ```

**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 tot)

**DIGITAL OUTPUTS**

- 16 independent channels
- Optical fiber wiring of the gating signals to imperix PEB or PEH power modules
- Max. prop. delay difference between 2 channels: 80ns

**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.