

OP5354 - 32 Digital Output - 5-30V



This card is obsolete. The recommended replacement product is the [OP5360](#).

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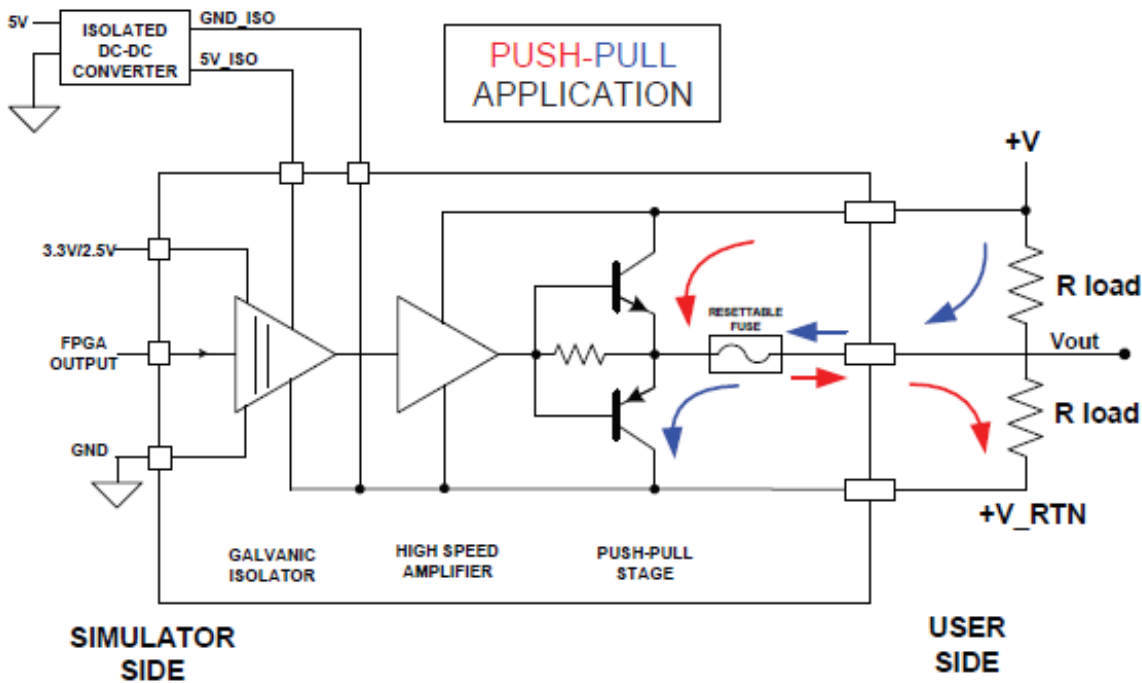
The OP5354 features 32 output channels capable of producing signals with voltage levels between 5 and 30V.

Main Features

- 32 galvanically isolated output channels grouped into two banks of 16 channels each
- 5V to 30V output voltage
- Output voltage level configuration via an external reference input pin
- Output current up to ± 50 mA
- Short-circuit protection by an auto-resettable fuse.

Channel description

The output stage of each channel is a push-pull type circuit. Each galvanically isolated output has a push-pull transistor. It can sink up to 50 mA continuous, and up to +30V. It is current-protected by resettable 150 mA fuse (PTC). The galvanic isolation circuitry is powered by an internal isolated DC supply.



All 32 outputs are updated simultaneously, at up to 40 MSPS.

The two banks of 16 signals of each bank are made available to the user via two DB37F connectors of the chassis in which the module is installed.

Reference voltage configuration

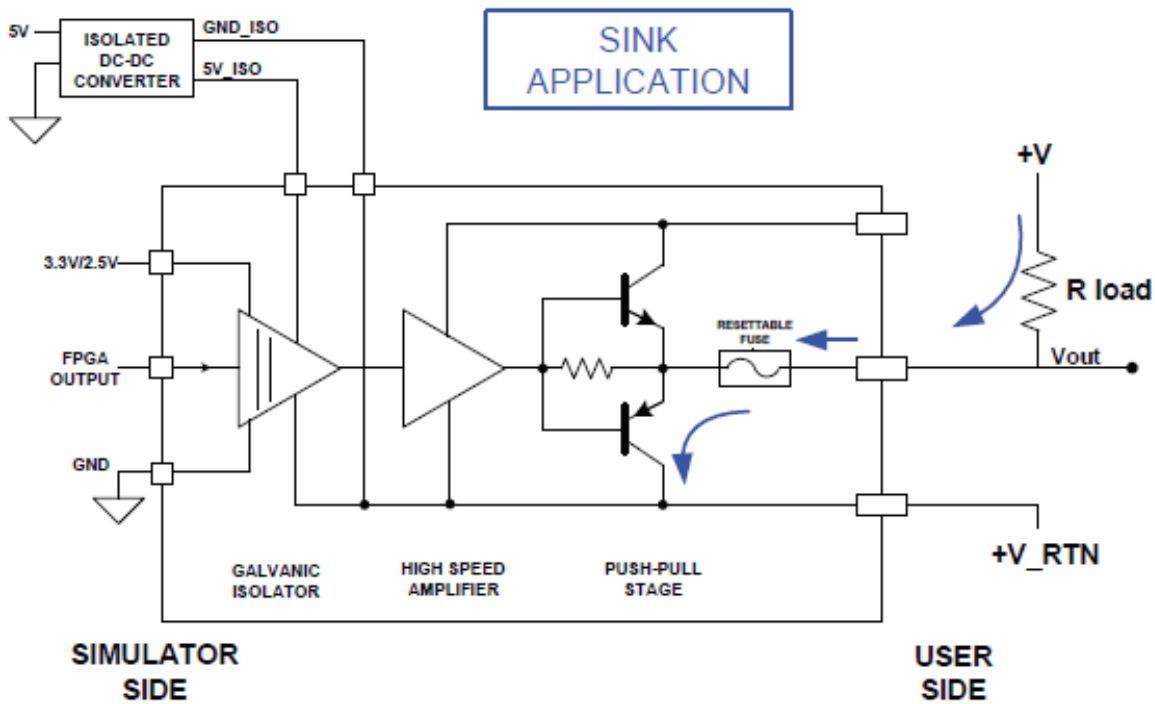
Two additional pins are made available at each DB37F connector to allow the user to supply the voltage reference: **Vuser**, the voltage reference level, and **Vrtn**, which is normally the Vuser GND.



When the FPGA is not driving the signal, for example during power-up of the system, the output transistors are open and the outputs are set to the **Vuser** value.

Typical Use Cases

In addition to the standard push-pull configuration, the module can operate in sink mode as shown below



For compatibility of this card, please consult the [Software compatibility](#) and [Hardware compatibility](#) tables.