

# OP4520 I/O Specifications

- [32 Digital In \(OP5353\)](#)
- [32 Digital Out \(OP5360-2\)](#)
- [16 Analog In \(OP5340\)](#)
- [16 Analog Out \(OP5330\)](#)
- [RS422 Digital In](#)
- [RS422 Digital Out](#)

The OP4520 can hold any combination of four of the following Type B mezzanines. The standard configuration contains one of each.

## 32 Digital In (OP5353)

<b>Number of channels</b>	32 digital inputs
<b>Isolation</b>	Optical isolator
<b>Connection mode</b>	Anode and cathode available on the connector
<b>Input current</b>	3.6 mA, current limiting diode
<b>Reverse voltage protection</b>	Schottky diode
<b>Maximum reverse voltage protection</b>	30 Volts
<b>Detection threshold</b>	Separate Schmitt Trigger
<b>Voltage range</b>	4 to 50 Vdc

## 32 Digital Out (OP5360-2)

<b>Number of channels</b>	32 digital outputs 2 banks of 16, fully isolated and independent of each other
<b>Isolation</b>	Galvanic isolator
<b>Output Protection</b>	50 mA resettable fuse
<b>Protection thresholds</b>	Overvoltage: 30.1V Reverse voltage: maximum of 30 V.
<b>Output Voltage range</b>	5 to 30 Vdc max
<b>Output configuration</b>	Push-pull, tri-state output

## 16 Analog In (OP5340)

<b>Number of channels</b>	16 differential
<b>Resolution:</b>	16 bits
<b>Input range (V)</b>	±20v to ±120v

## 16 Analog Out (OP5330)

<b>Number of channels</b>	16 single-ended
<b>Resolution</b>	16 bits

<b>Default range</b>	± 16 Volts
<b>Maximum current</b>	15 mA

## RS422 Digital In

<b>Number of channels</b>	6 differential inputs
<b>Detection threshold</b>	± 0.2 V (for ± 7 V range) ± 0.5 V (for ± 15 V range)
<b>Input current</b>	± 3 mA
<b>Voltage range</b>	5 Vdc
<b>Delay Low-to-High</b>	65 ns

## RS422 Digital Out

<b>Number of channels</b>	6 differential outputs
<b>High level (With load) Low level (With load)</b>	2.5 V min @ -20 mA 0.5 V max @ 20 mA
<b>Voltage range</b>	5 Vdc
<b>Delay Low-to-High</b>	55 ns