

## HIL DSP Interface connections

HIL analog output	F28335 ADC input
1	A0
2	A1
3	A2
4	A3
5	A4
6	A5
7	A6
8	A7
9	B0
10	B1
11	B2
12	B3
13	B4
14	B5
15	B6
16	B7

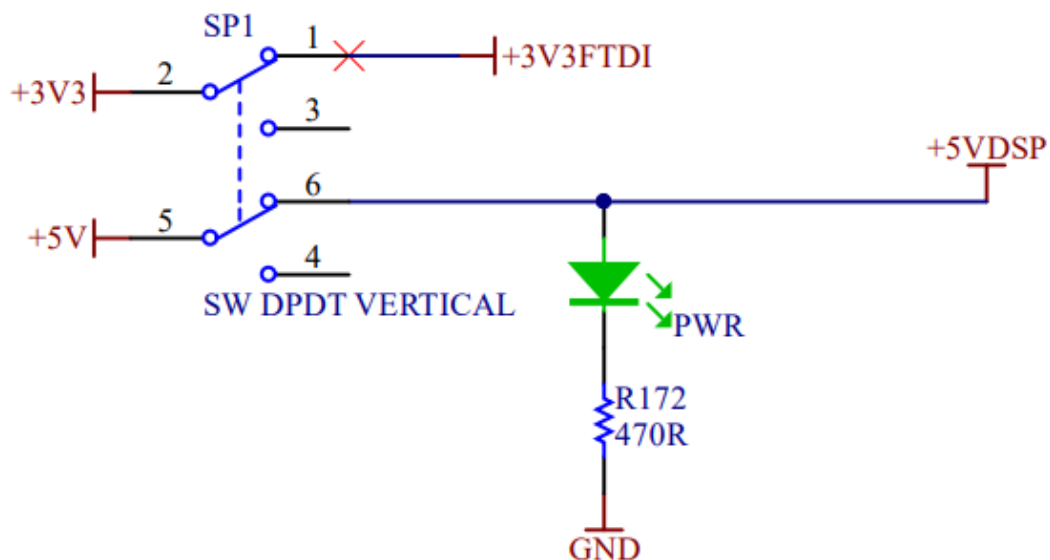
A total of 16 HIL analog outputs are scaled from the HIL's (-5V, 5V) to DSP's (0, 3.3V) voltage range.

HIL digital output	F28335 digital input
1	GPIO-24 / eQEP-2A
2	GPIO-25 / eQEP-2B
3	GPIO-26 / eQEP-2Z
4	GPIO-20 / eQEP-1A
5	GPIO-21 / eQEP-1B
6	GPIO-22
7	GPIO-23 / eQEP-1Z
8	GPIO-27
9	GPIO-32
10	GPIO-33
11	GPIO-48
12	GPIO-49
13	GPIO-60
14	GPIO-61
15	GPIO-62
16	GPIO-63

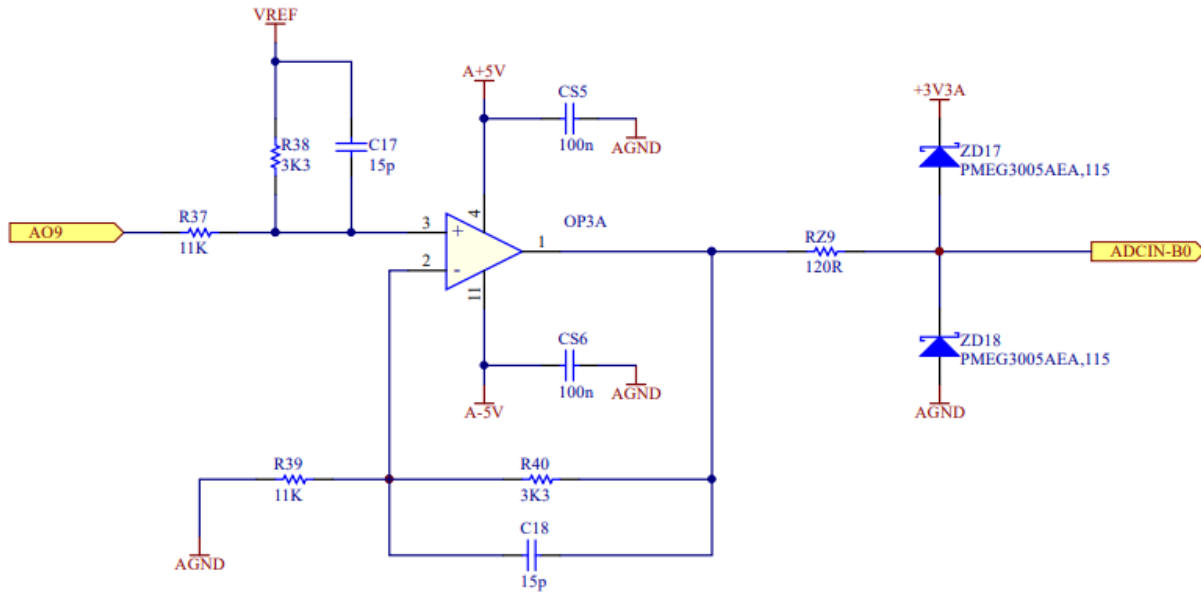
HIL digital input	F28335 digital output
1	GPIO-0 / ePWM-1A
2	GPIO-2 / ePWM-2A
3	GPIO-4 / ePWM-3A
4	GPIO-6 / ePWM-4A
5	GPIO-8 / ePWM-5A
6	GPIO-10 / ePWM-6A
7	GPIO-1 / ePWM-1B
8	GPIO-3 / ePWM-2B
9	GPIO-5 / ePWM-3B
10	GPIO-7 / ePWM-4B
11	GPIO-9 / ePWM-5B
12	GPIO-11 / ePWM-6B
13	GPIO-14
14	GPIO-12
15	GPIO-15
16	GPIO-13

A total of 16 HIL digital inputs and 16 outputs are level shifted from the HIL's 5V to DSP's 3.3V.

#### Power supply:



### One HIL AO - ADCIN signal conditioning schematic



## JTAG and UART

