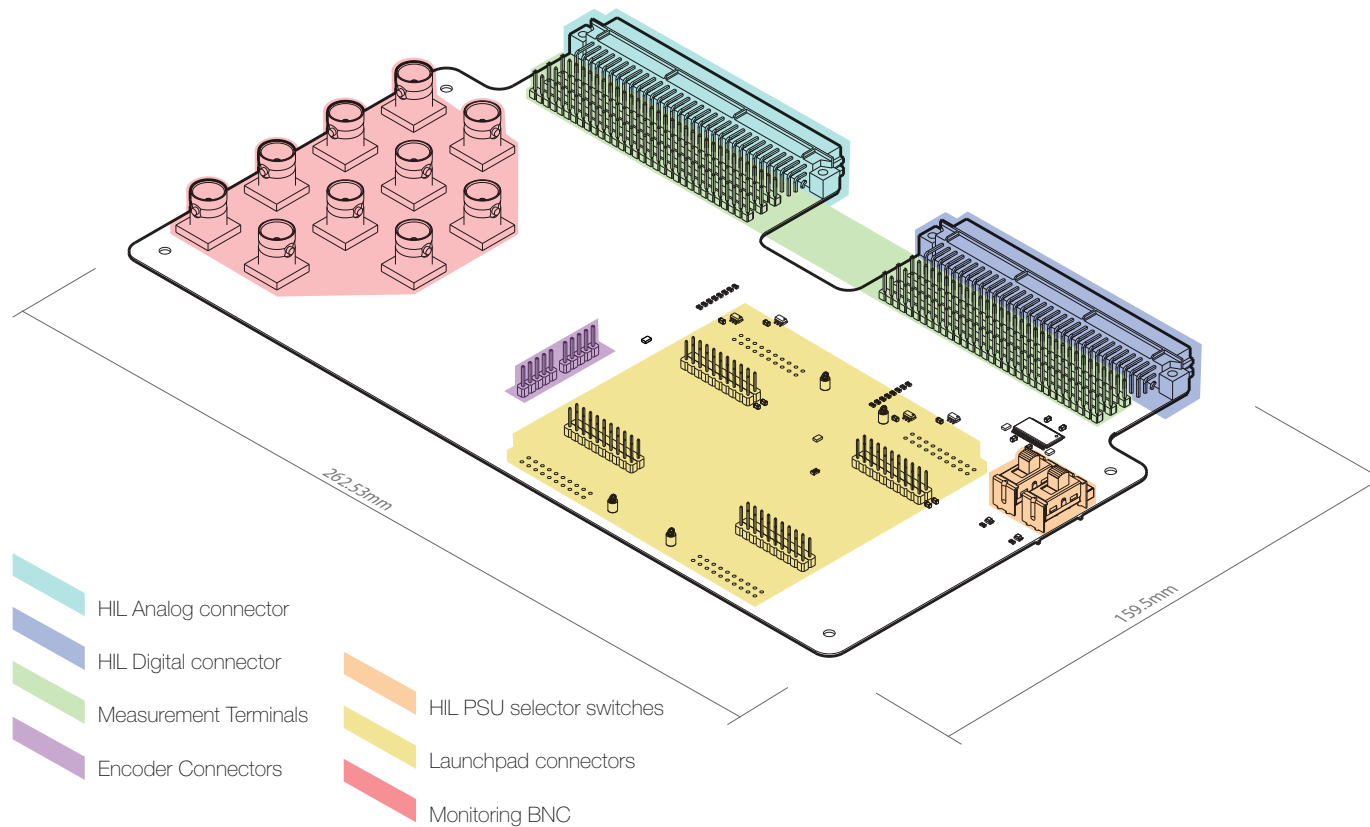


HIL TI Launchpad™ Interface

Start testing your control algorithms in no time.



Applications

The HIL TI Launchpad™ Interface provides a pin-to-pin compatible interface between Typhoon HIL emulators and C2000 Launchpad boards. In less than 5 minutes you can plug a TI Launchpad™ into a Typhoon HIL real-time emulator, map the signals, and run models with closed loop control. Any supported TI Launchpad™ Interface can be connected to any Typhoon HIL emulator, without cables or external power supplies. You can now focus on DSP control code development, instead of hardware interface development.

Features and Benefits

- Easily accessible measurement terminals for monitoring all DSP and HIL signals
- 16 HIL Digital Inputs (including DSP's PWM signals)
- 16 HIL Digital Outputs (level shifted to 3.3 V)
- 16 HIL Analog Outputs (clamped to 3.3 V)
- 4 HIL Analog Inputs
- 6 HIL Digital Outputs for 2 channel eQEP signals

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Technical Details

Table 1: Routing of Analog signals

Typhoon HIL Analog Stage	DSP Analog Stage
AO1	ADCIN-14
AO2	ADCIN-C3
AO3	ADCIN-B3
AO4	ADCIN-A3
AO5	ADCIN-C2
AO6	ADCIN-B2
AO7	ADCIN-A2
AO8/AI1*	ADCIN-A0/DAC-A
AO9	ADCIN-15
AO10	ADCIN-C5
AO11	ADCIN-B5
AO12	ADCIN-A5
AO13	ADCIN-C4
AO14	ADCIN-B4
AO15	ADCIN-A4
AO16/AI2*	ADCIN-A1/DAC-B
AI3	PWM-DAC1
AI4	PWM-DAC2
AI5	PWM-DAC3
AI6	PWM-DAC4

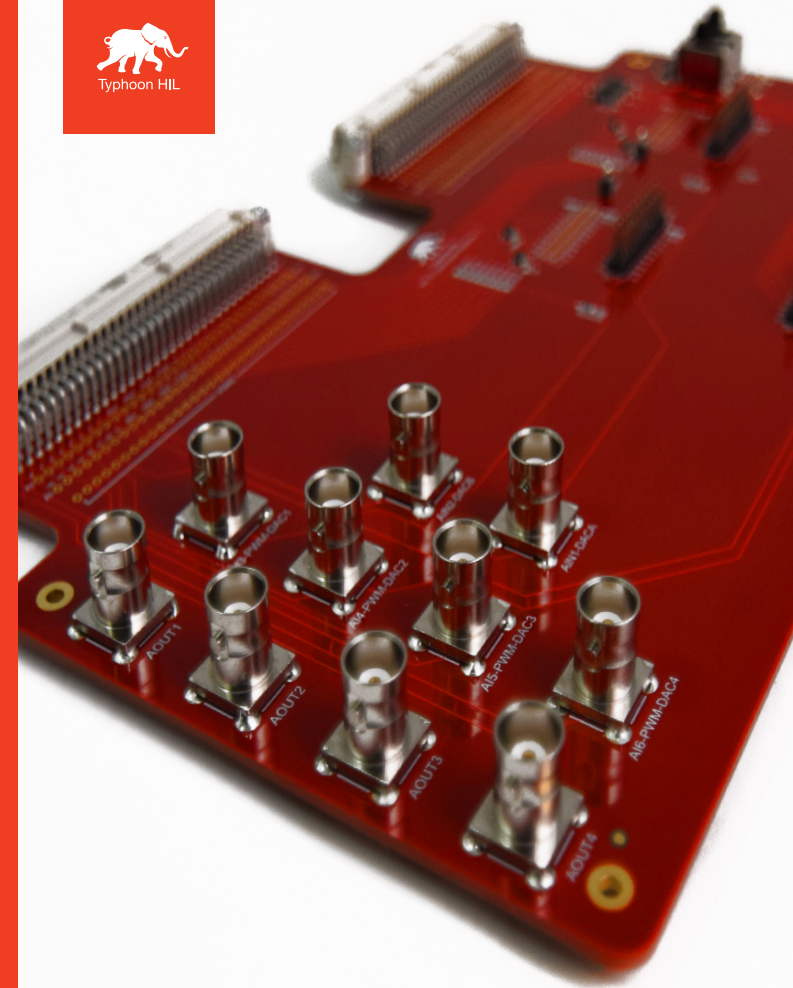
* Depending on the position of RDACA or RDACB jumper resistors, HIL AO or HIL AI is connected to the DSP analog pin. Defaults are HIL AO connected to DSP ADC

Table 2: Routing of Digital signals

Typhoon HIL Digital Output	DSP Digital Input	Typhoon HIL Digital Input	DSP Digital Output
DO1	GPIO-61	DI1	GPIO-00/PWM-1A
DO2	GPIO-123	DI2	GPIO-01/PWM-1B
DO3	GPIO-122	DI3	GPIO-02/PWM-2A
DO4	GPIO-58	DI4	GPIO-03/PWM-2B
DO5	GPIO-59	DI5	GPIO-04/PWM-3A
DO6	GPIO-124	DI6	GPIO-05/PWM-3B
DO7	GPIO-125	DI7	GPIO-24
DO8	GPIO-29	DI8	GPIO-16
DO9	GPIO-66	DI9	GPIO-06/PWM-4A
DO10	GPIO-131	DI10	GPIO-07/PWM-4B
DO11	GPIO-130	DI11	GPIO-08/PWM-5A
DO12	GPIO-63	DI12	GPIO-09/PWM-5B
DO13	GPIO-64	DI13	GPIO-10/PWM-6A
DO14	GPIO-26	DI14	GPIO-11/PWM-6B
DO15	GPIO-27	DI15	GPIO-14/PWM-8A
DO16	GPIO-25	DI16	GPIO-15/PWM-8B
DO17	EQEP1A		
DO18	EQEP1B		
DO19	EQEP1I		
DO20	EQEP2A		
DO21	EQEP2A		
DO22	EQEP2A		



Typhoon HIL



Typhoon HIL

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HIL TI Launchpad Interface

Interface for Texas Instruments Launchpad™ series.

- ✓ Easy-to-reach measurement terminals.
- ✓ No additional tools required.
- ✓ Plug and Play.

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