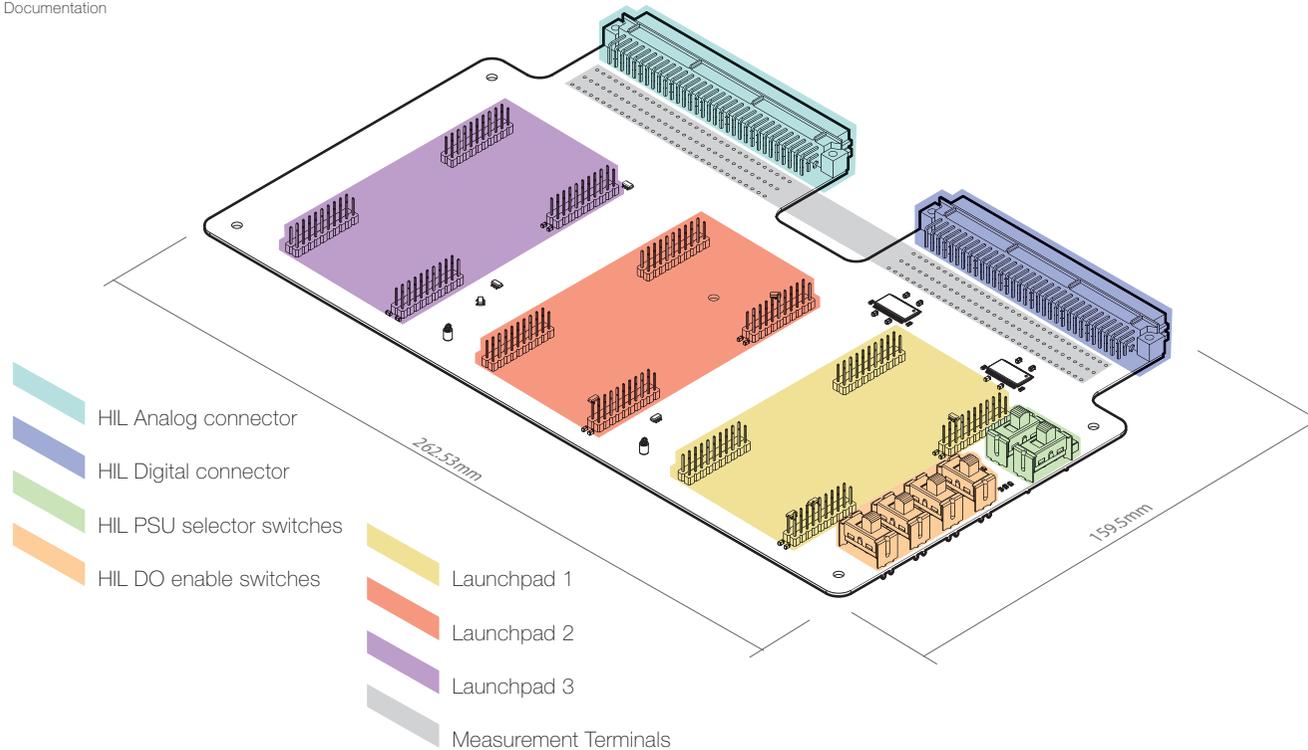




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# HIL TI $\mu$ Grid Launchpad™ Interface

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 up to three 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.

## Features and Benefits

- Headers for 3 TI LaunchPad™ boards
- Easily accessible measurement terminals for monitoring all DSP and HIL signals
- 32 HIL Digital Inputs
- 32 HIL Digital Outputs (level shifted down to 3.3V)
- 32 HIL Analog Outputs (clamped to 3.3V)
- 16 HIL Analog Inputs

[www.typhoon-hil.com](http://www.typhoon-hil.com)

## Technical Details

Table 1: Routing of HIL Analog Output signals

HIL AO	LaunchPad 3	LaunchPad 2	LaunchPad 1
AO1			ADCINA4
AO2			ADCINB4
AO3			ADCINC4
AO4			ADCIN15
AO5			ADCINA2
AO6			ADCINB2
AO7			ADCINC2
AO8			ADCINA3
AO9			ADCINB3
AO10			ADCINC3
AO11			ADCIN14
AO12		ADCINA2	
AO13		ADCINB2	
AO14		ADCINC2	
AO15		ADCINA3	
AO16		ADCINC3	
AO17		ADCINA4	
AO18		ADCINB4	
AO19		ADCINC4	
AO20		ADCIN15	
AO21	ADCIN14		
AO22	ADCINC3		
AO23	ADCINB3		
AO24	ADCINA3		
AO25	ADCINC2		
AO26	ADCINB2		
AO27	ADCINA2		
AO28	ADCINC4		
AO29	ADCINB4		
AO30	ADCINA4		
AO31		ADCINB3	
AO32		ADCIN14	

Table 2: Routing of HIL Analog Input signals

HIL AI	LaunchPad 3	LaunchPad 2	LaunchPad 1
AI1		DACB	
AI2		DACA	
AI3		PWM-DAC3	
AI4		PWM-DAC4	
AI5			DACA
AI6			PWM-DAC3
AI7			PWM-DAC4
AI8			DACB
AI9		PWM-DAC2	
AI10		PWM-DAC1	
AI11			PWM-DAC2
AI12			PWM-DAC1
AI13	DACB		
AI14	DACA		
AI15	PWM-DAC1		
AI16	PWM-DAC2		

Table 3: Routing of HIL Digital Output signals

HIL DO	LaunchPad 3	LaunchPad 2	LaunchPad 1
DO1			GPIO123
DO2			GPIO122
DO3			GPIO58
DO4			GPIO24
DO5			GPIO59
DO6			GPIO16
DO7			GPIO124
DO8			GPIO125
DO9			GPIO66
DO10			GPIO131
DO11			GPIO130
DO12			GPIO63
DO13			GPIO64
DO14			GPIO26
DO15			GPIO27
DO16			GPIO25
DO17	GPIO123		
DO18	GPIO122		
DO19	GPIO58		
DO20	GPIO59		
DO21	GPIO24		
DO22	GPIO124		
DO23	GPIO16		
DO24	GPIO125		
DO25		GPIO123	
DO26		GPIO122	
DO27		GPIO58	
DO28		GPIO24	
DO29		GPIO59	
DO30		GPIO16	
DO31		GPIO124	
DO32		GPIO125	

Table 4: Routing of HIL Digital Input signals

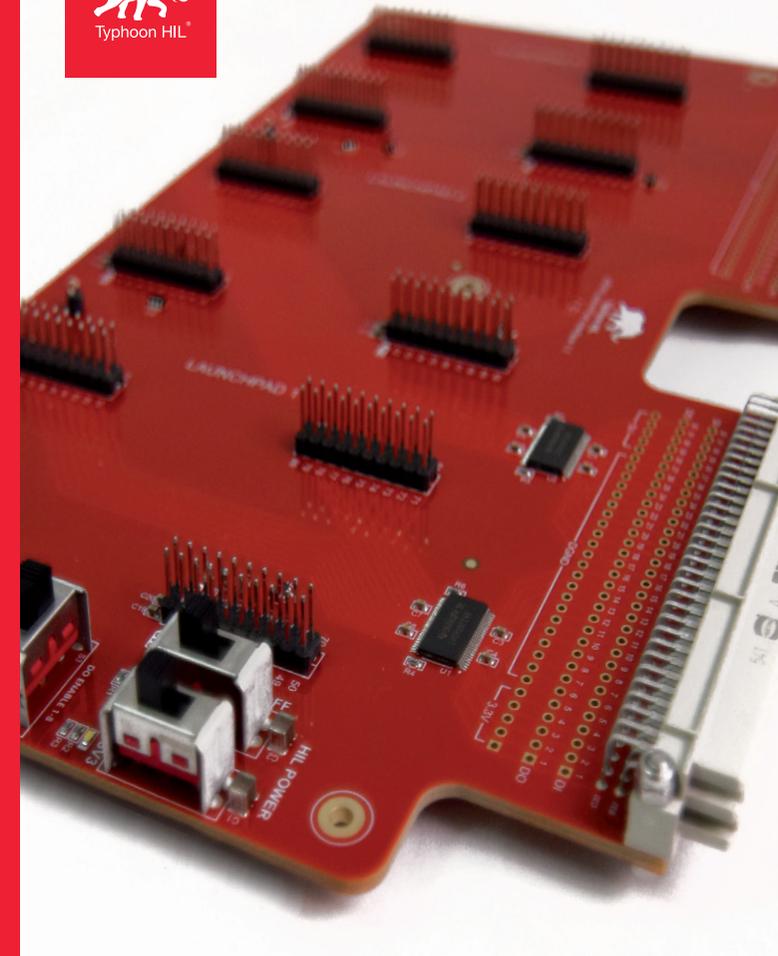
HIL DI	LaunchPad 3	LaunchPad 2	LaunchPad 1
DI1			PWM1A
DI2			PWM1B
DI3			PWM2A
DI4			PWM2B
DI5			PWM3A
DI6			PWM3B
DI7			PWM4A
DI8			PWM4B
DI9			PWM5A
DI10			PWM5B
DI11			PWM6A
DI12			PWM6B
DI13		PWM1A	
DI14		PWM1B	
DI15		PWM2A	
DI16		PWM2B	
DI17		PWM3A	
DI18		PWM3B	
DI19		PWM4A	
DI20		PWM4B	
DI21		PWM5A	
DI22		PWM5B	
DI23		PWM6A	
DI24		PWM6B	
DI25	PWM1A		
DI26	PWM1B		
DI27	PWM2A		
DI28	PWM2B		
DI29	PWM3A		
DI30	PWM3B		
DI31	PWM4A		
DI32	PWM4B		

Thank you!  
Your order made our  
day, and we hope our  
package returns the  
same favor.



Your Typhoon HIL Service  
Tajfun HIL d.o.o.  
Bajci Zilinskog BB  
21000 Novi Sad  
Serbia  
+381 21 3021 383

[info@typhoon-hil.com](mailto:info@typhoon-hil.com)



## HIL TI $\mu$ Grid Launchpad Interface

Interface for Texas Instruments Launchpad™ series.

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