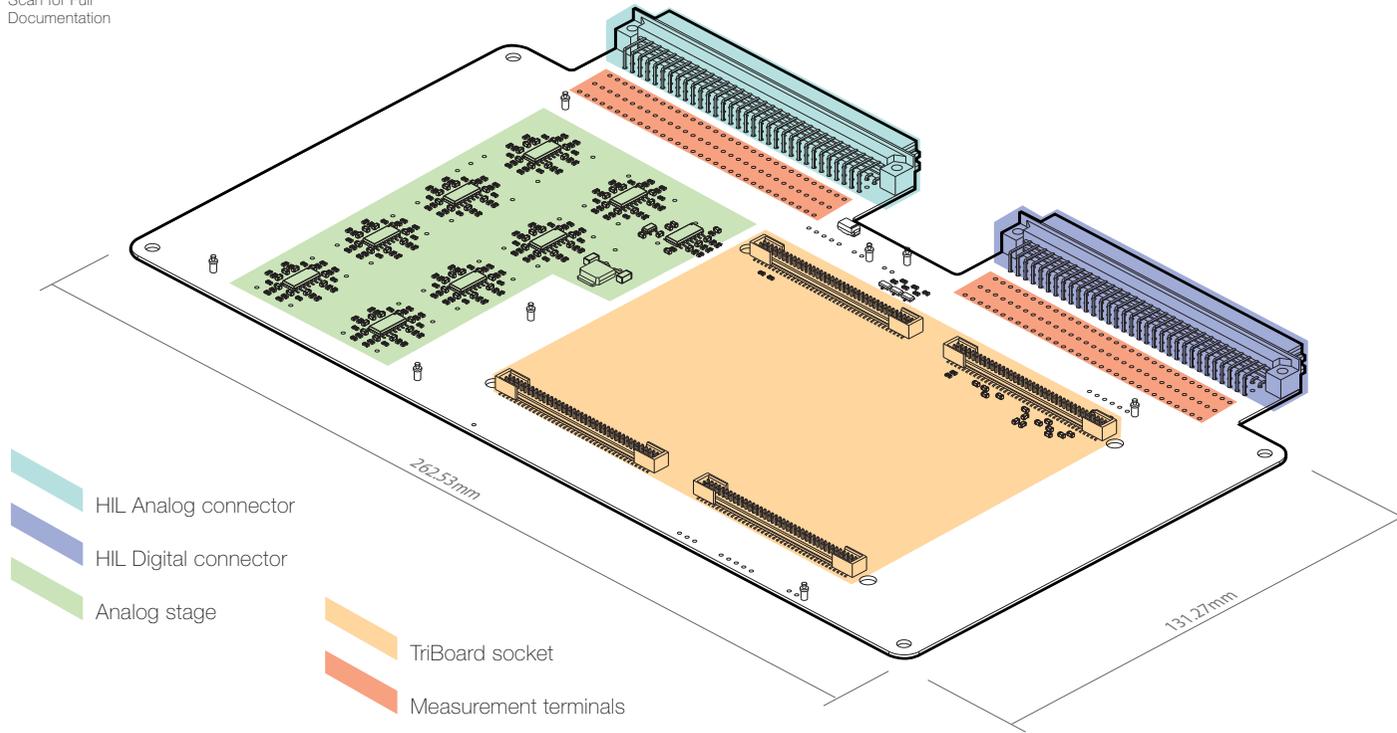




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HIL Infineon TriBoard Interface

Start testing your control algorithm in no time.



Applications

Development boards like the TriBoard are essential tools for engineers and developers as they provide a ready-to-use platform to test and experiment with the features and capabilities of specific microcontrollers, particularly in the electric vehicle (EV) market. Furthermore, AURIX™ TC3xx and TC4xx evaluation boards enable engineers to start testing and validating

their control design on real MCU's before the actual controller hardware is available. This approach enables control developers to test early and test often and to also start early to build tests. For this reason Typhoon HIL developed interfacing boards for easy connection of the TriBoard with the Real-Time HIL simulators for easy code development based on HIL technology.

Features and Benefits

- Start testing and validating your e-Mobility ECU (Electronic Control Unit) control code early in the development phase before final controller hardware is available
- Test early and test often throughout the development with real MCU target
- Automate testing and validation

Table 1: Routing of Analog signals

HIL Analog Output	TriBoard Analog Input	HIL Analog Input	TriBoard Resolver PWM
O1	AN46	AI1	P00.5
AO2	AN47	AI2	P00.6
AO3	AN43		
AO4	AN42		
AO5	AN30		
AO6	AN39		
AO7	AN29		
AO8	AN38		
AO9	AN15		
AO10	AN14		
AO11	AN13		
AO12	AN12		
AO13	AN10		
AO14	AN9		
AO15	AN6		
AO16	AN5		
AO17	AN28		
AO18	AN11		
AO19	AN4		
AO20	AN27		
AO21	AN26		
AO22	AN37		
AO23	AN1		
AO24	AN25		
AO25	AN23		
AO26	AN33		
AO27	AN34		
AO28	AN22		
AO29	AN19		
AO30	AN36		
AO31	AN35		
AO32	AN18		

Table 2: Routing of Digital signals

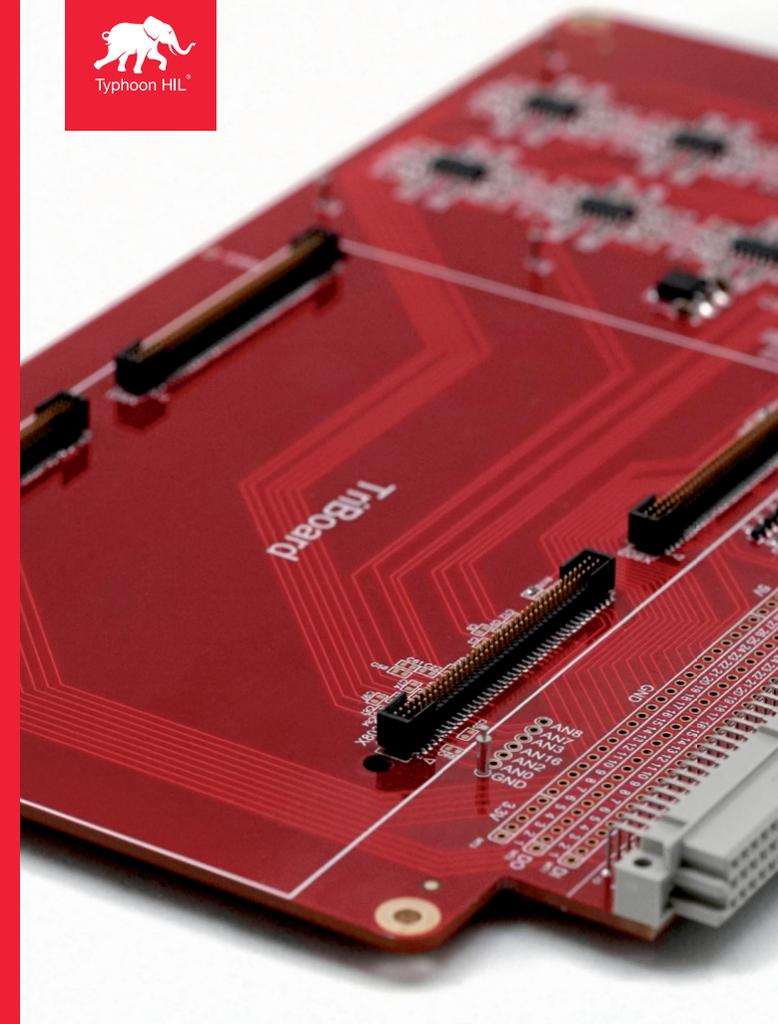
HIL Digital Output	TriBoard Digital Input	HIL Digital Input	TriBoard Digital Output
DO1	P34.1	DI1	P02.0
DO2	P34.2	DI2	P02.1
DO3	P34.3	DI3	P02.2
DO4	P34.4	DI4	P02.3
DO5	P34.5	DI5	P02.4
DO6	P21.6	DI6	P02.5
DO7	P21.7	DI7	P02.9
DO8	P21.2 (Emergency)	DI8	P02.10
DO9	P21.3	DI9	P02.11
DO10	P21.4	DI10	P02.6
DO11	P21.5	DI11	P02.7
DO12	P21.1	DI12	P02.8
DO13	P21.0	DI13	P00.6 (Resolver PWM)
DO14	ESR0#	DI14	P00.5 (Resolver PWM)
DO15	ESR1#	DI15	P22.2
DO16	PORST# (Reset)	DI16	P22.3
		DI17	P22.0
		DI18	P22.1
		DI19	P22.11
		DI20	P22.10
		DI21	P22.9
		DI22	P22.8
		DI23	P22.4
		DI24	P22.5
		DI25	P22.6
		DI26	P22.7
		DI27	P20.13
		DI28	P20.12

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



Your Typhoon HIL Service
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HIL Infineon TriBoard Interface

Interface for Infineon TC3xx and TC4xx
development boards.

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

www.typhoon-hil.com