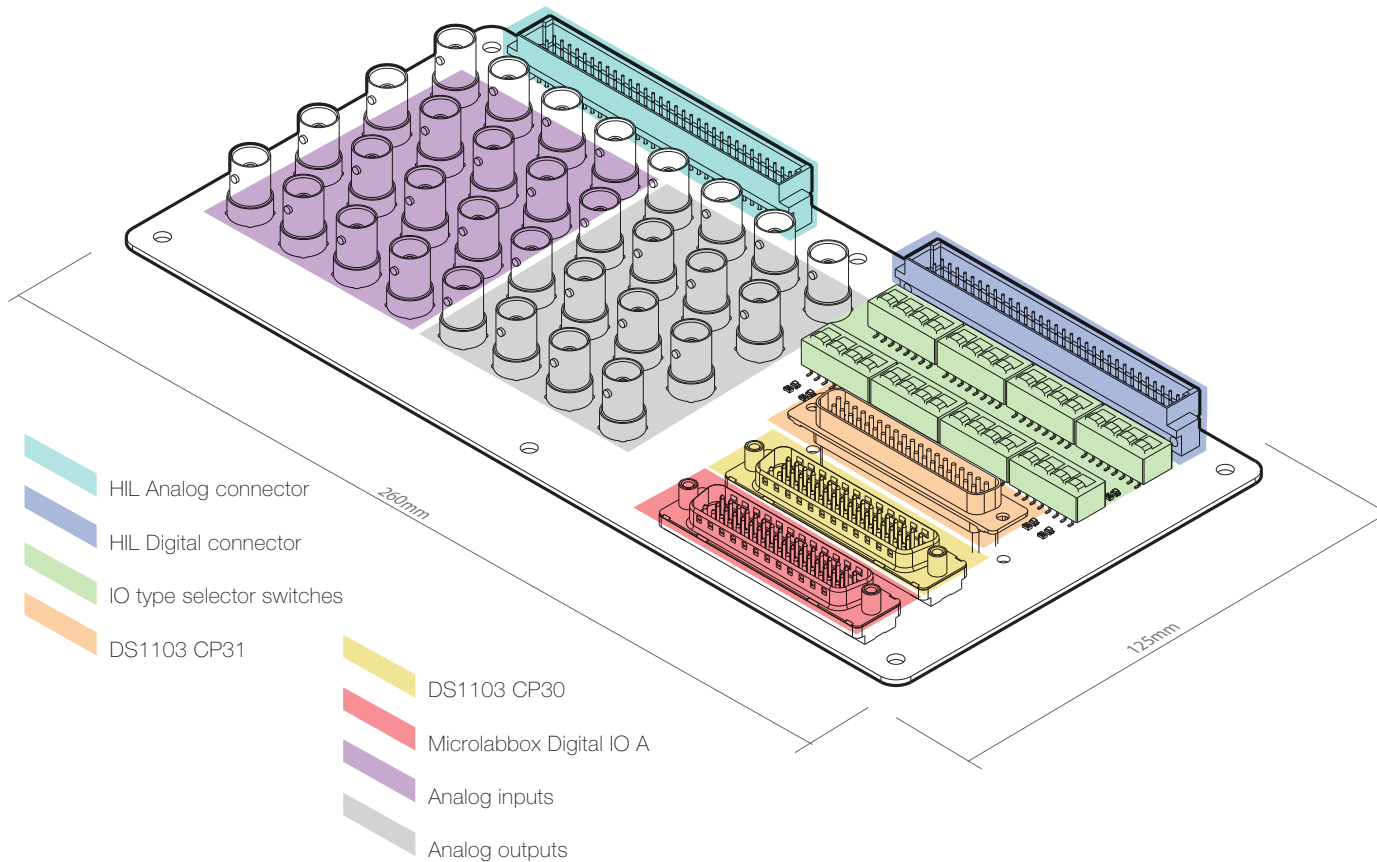


# HIL dS Type B Interface

Plug-and-play interfaces for easy Rapid Control Prototyping



## Application

The HIL dS Type-B Interface provides a ready-to-go interface between all Typhoon HIL emulators (4-Series and 6-Series) and the dSPACE's MicroLabBox™, top panel variant, as well as DS1103 controllers.

With a dSPACE MicroLabBox™ as the control loop, and any supported HIL device as the plant, you have a complete test bench for a multitude of applications: automotive, drives, or power electronics.

## Features and Benefits

- Pinout 1-to-1 compatible with supported dSPACE™ hardware products
- Digital IO type settable via 32 SPDT switches
- LED indication of digital IO activity

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

## Technical Details (short)

Compatibility - HIL devices	HIL602 HIL602+ HIL604
Designed for	dSPACE DS1103 with CP1103 connector panel dSPACE MicroLabBox™, top panel variant w/ BNC connectors (MLBX_1302T)
Supported connectors	DS1103 CP31 DS1103 CP30 Sub-D 50 (Digital I/O) BNC (16 AO and 16 AI)

## Pinout - tables

Connector  
DS1103 CP30

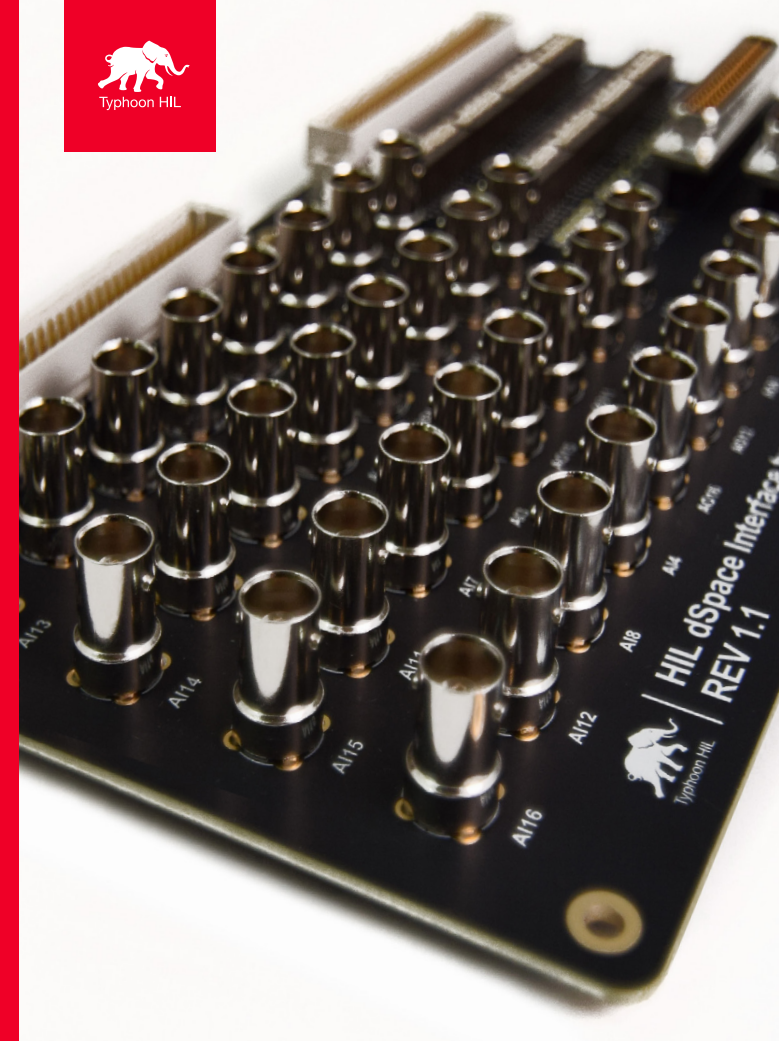
Pin	Signal	Pin	Signal	Pin	Signal
1	GND	18	IO32	34	NC
2	IO16	19	IO31	35	NC
3	IO15	20	IO30	36	NC
4	IO14	21	IO29	37	NC
5	IO13	22	IO28	38	NC
6	IO12	23	IO27	39	GND
7	IO11	24	IO26	40	GND
8	IO10	25	IO25	41	GND
9	IO9	26	IO24	42	GND
10	IO8	27	IO23	43	GND
11	IO7	28	IO22	44	GND
12	IO6	29	IO21	45	GND
13	IO5	30	IO20	46	GND
14	IO4	31	IO19	47	GND
15	IO3	32	IO18	48	GND
16	IO2	33	IO17	49	GND
17	IO1			50	GND

Connector  
DS1103 CP31

Pin	Signal	Pin	Signal
1	GND	20	GND
2	NC	21	DI1/SCAP2
3	NC	22	DI2/SCAP4
4	GND	23	NC
5	DI10/STPWM	24	NC
6	GND	25	NC
7	DI1/SPWM1	26	DI2/SPWM2
8	DI3/SPWM3	27	DI4/SPWM4
9	DI5/SPWM5	28	DI6/SPWM6
10	DI7/SPWM7	29	DI8/SPWM8
11	DI9/SPWM9	30	GND
12	NC	31	NC
13	GND	32	NC
14	NC	33	NC
15	GND	34	NC
16	NC	35	NC
17	NC	36	NC
18	DI13/SXF	37	GND
19	NC		

Connector  
Microlabbox™  
Digital I/O A

Pin	Signal	Pin	Signal	Pin	Signal
1	GND	18	GND	34	IO32
2	IO16	19	GND	35	IO31
3	IO15	20	GND	36	IO30
4	IO14	21	GND	37	IO29
5	IO13	22	GND	38	IO28
6	IO12	23	GND	39	IO27
7	IO11	24	GND	40	IO26
8	IO10	25	GND	41	IO25
9	IO9	26	GND	42	IO24
10	IO8	27	GND	43	IO23
11	IO7	28	GND	44	IO22
12	IO6	29	GND	45	IO21
13	IO5	30	GND	46	IO20
14	IO4	31	GND	47	IO19
15	IO3	32	GND	48	IO18
16	IO2	33	GND	49	IO17
17	IO1			50	GND



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## HIL dS Type B Interface

Interface for dSpace™ devices.

- ✓ No additional tools required.
- ✓ Plug and Play.

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