

Interface Connections

RPi1 provides connections for analogue inputs and digital inputs between the flight simulator and the *Thrustmaster* joystick, throttle and rudder pedal controls. These inputs are defined in the following tables.

RPi1 Analogue Inputs

Item	Diagnostics	Channel	Notes
Aileron	P01	0	+ve right
Elevator	P02	1	+ve back
Rudder	P03	2	+ve right
Elevator trim wheel	P04	3	+ve backward
Throttle right	P05	4	+ve backward
Throttle left	P06	5	+ve backward
Right brake	P07	6	-ve pressed
Left brake	P08	7	-ve pressed
Electric elevator trim	P09	8	+ve right
Electric rudder trim	P10	9	+ve down
	P11	10	
	P12	11	
	P13	12	
	P14	13	
	P15	14	
	P16	15	
	T01	16	
	T02	17	
	T03	18	
	T04	19	
	T05	20	
	T06	21	
	T07	22	
	T08	23	
	T09	24	
	T10	25	
	T11	26	
	T12	27	
	T13	28	
	T14	29	
	T15	30	
	T16	31	

Note:

- Channels P11-P16 and T01-T16 are unused
- All analogue values are in the range ± 32767

RPi1 Digital Inputs

Item	Diagnostics	Notes
A/P disconnect	A7	Stick rear trigger
Auto start	A6	Stick red button
Gear up	A5	Stick knurled black switch
Gear down	A4	Stick knurled black switch
Reverse thrust disengage	A3	Throttle red switch
Reverse thrust engage	A2	Throttle red switch
HOLD button	A1	Throttle back red button
Left fuel select	A0	Throttle left fuel switch
Right fuel select	B7	Throttle right fuel switch
Left ignition switch	B6	Throttle left ignition switch
Right ignition switch	B5	Throttle right ignition switch
Flaps up	B4	Throttle flaps switch
Flaps down	B3	Throttle flaps switch
Park brake	B2	Throttle EAC ARM
RESTORE button	B1	Throttle A/P engage
Left engine start	B0	Throttle left IGN push
Right engine start	C7	Throttle right IGN push
	C6	
	C5	
	C4	
	C3	
	C2	
	C1	
	C0	
	D7	
	D6	
	D5	
	D4	
	D3	
	D2	
	D1	
	D0	

Note:

- Red = ON, Blue = OFF
- Channels C0-C6 and D0-D7 are unused

DJA

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