



Warning: *This component and all componets supplied by iflysimS are for use in flight simulators and similar installations. Under no circumstances should any component be used in an Aircraft or Aircraft Avionics. This part is not approved nor desinged for use in any Aircraft or Vehicle.*

Congratulations on your purchase of the B-05 6 Button / 2 Rotary Encoder Board. This board is designed to be used in a variety of flight simulation cockpit layouts. This board is not designed nor approved to be used in an Aircraft. You will require a decoder board to convert the signals to USB commands that can be recognised by your Flight Simulator. Any decoder board capable of interfacing to switches and Encoders will work however we recommend the iflysimS series of decoders (B-04x).



Figure 1 – G1000 Perspective PFD

Figure 2 shows the components and subassemblies that can be used to create the G1000 Primary Flight Display (PFD).

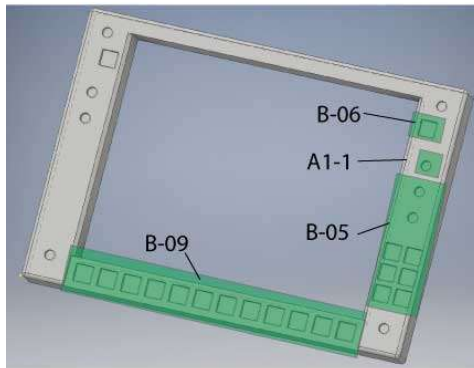


Figure 2 – Layout

B-05 6 Buttons with 2 Single Rotary Encoders (with push button). Designed to operate as the 6 buttons.

D	MENU
FP	PROC
CLR	ENT

The 2 Encoders have a push button and can be assigned functions such as RANGE and BARO.

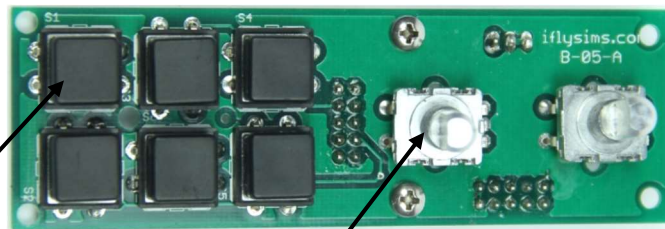
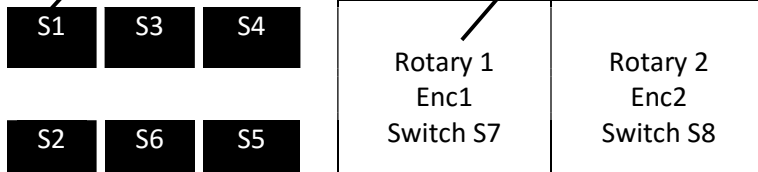
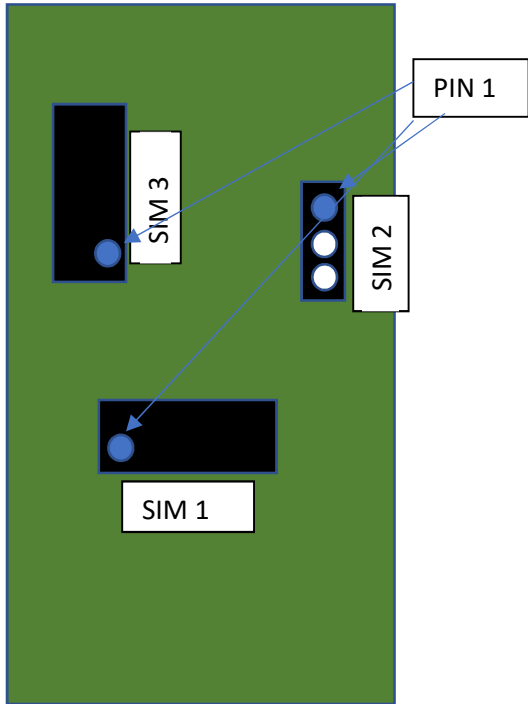


Figure 4 – (B-05) 6 Button/2 Rotary Encoder





This is the view of the Board from the Back (connector side). There are 3 connectors labeled on the board SIM 1-3. Pin 1 is the lower left pin for SIM 1 & 3 and the top pin for SIM 2. PIN 1 is shown on this diagram in blue.

SIM 2 may only 2 PINS installed. PIN #1 may not be installed. Only PINS #2 & #3 are required to connect additional button. PIN #2 is connected to Ground. PIN #3 is connected to PIN #10 on SIM1

SIM 1 – Connected to Switches (Push Buttons) & Rotary Encoder Buttons

Pin #2	S6	Pin #4	S2	Pin #6	S7	Pin #8	S8	Pin #10	PIN 3 (SIM2)
Pin #1	Common Ground	Pin #3	S5	Pin #5	S4	Pin #7	S3	Pin #9	S1

PIN #10 is connected to PIN #3 on SIM2 to allow an extension single button to be connected to the B-05 Board.

Switches S7 & S8 are the pushbutton switches on the Rotary Encoders.

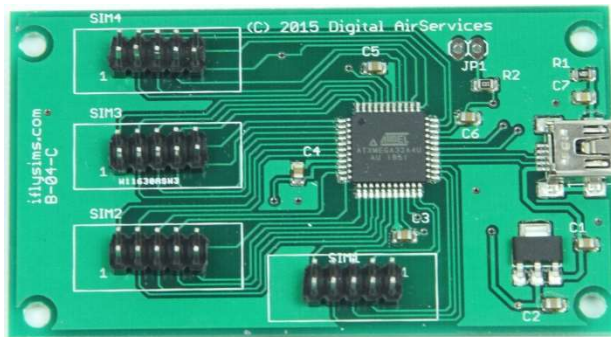
SIM 2 – Connected to Rotary Encoders

Pin #2	S6	Pin #4	S2	Pin #6	N/C	Pin #8	N/C	Pin #10	PIN 3 (SIM2)
Pin #1	Common Ground	Pin #3	ENC 1 (A)	Pin #5	ENC 1 (B)	Pin #7	ENC 2 (A)	Pin #9	ENC 2 (B)

Rotary Encoders have an A & B line. They require connection to a rotary decoder board such as B-04R or similar. Rotary encoders used are standard EN11 rotary encoders with 20 detents per revolution.

Recommended for use with Rotary Encoders (Not included with B-05) must be purchased separately.

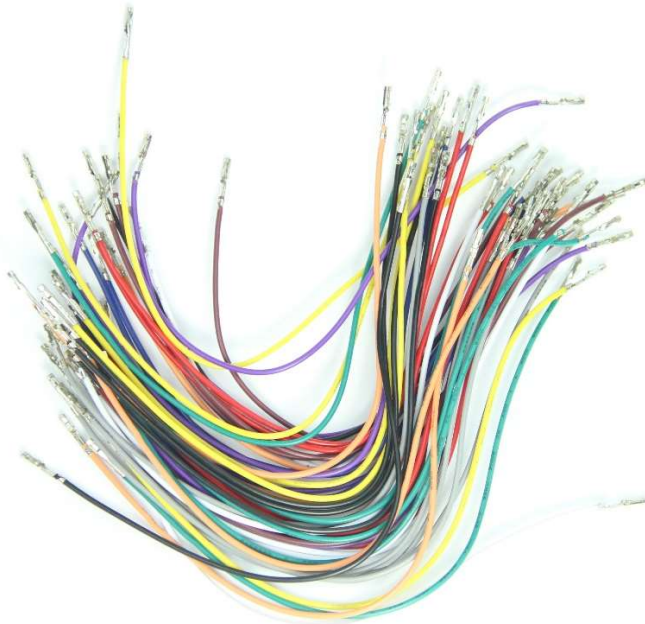
B-04R 16 Rotary Decoder Board, used to interface the Rotary Encoders (A1-1) and Single encoders to the Flight Simulator. The Board support 16 separate encoders. Each Dual Rotary Encoder will count as 2 encoders. In this configuration 6 of the 16 encoder channels are used. The Board connects to the computer running the flight simulator software using USB.



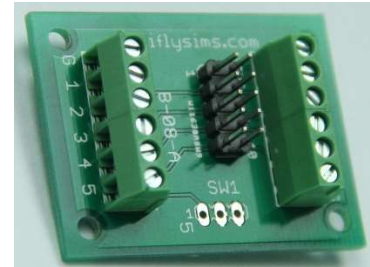
B-04 – USB Interface Board (B-04R and B-04B are identical Boards but contain different Firmware Programs)

B-04B 32 Button Decoder Board, used to interface the push buttons to the Flight Simulator. The Board support 32 separate buttons. Each Dual Rotary Encoder push button will connect to this Board. In this configuration 23 of the 32 channels are used. The Board connects to the computer running the flight simulator software using USB.

Also available are wiring connectors and crimp housing connectors. All Boards use 0.1" (2.54mm) pitch connectors. Iflysims stock limited supplies of connections and can be obtained directly or from most electronic stores such as Fry's or Radio Shack.



A-0021 - 50 Wire Connector Pack (6" F-F)



B-08 – 10 Pin Break Out Board

Please visit our website iflysims.com or email us at info@iflysims.com for further details and pricing.