SAMPLE COMPONENT LAYOUT AND I/O ASSIGNMENT

16-bit I/O BOARD

LEDs A-side   LEDs B-Side

LA1 LA2 LA3 LA4 LA5 LA6 LA7 LA8   LB1 LB2 LB3 LB4 LB5 LB6 LB7 LB8

15 13 11 9 7 5 3 1   15 13 11 9 7 5 3 1

Q

	A			
A1	7400 B1	C1	D1	E1
	A B Q			

A — 7400 — B
B1 — Q

S — 7404
A2 | B2 | C2 | D2 | E2

A3 | B3 | C3 | D3 | E3

A4 | B4 | C4 | D4 | E4

A5 | B5 | C5 | D5 | E5

A6 | B6 | C6 | D6 | E6

A7 | B7 | C7 | D7 | E7

HEX A-side

Left:
33 → B1
35 → B2
37 → B4
39 → B8

Right:
25 → B1
27 → B2
29 → B4
31 → B8

HEX B-side

Left:
33 → B1
35 → B2
37 → B4
39 → B8

Right:
25 → B1
27 → B2
29 → B4
31 → B8

SWITCHES A-side

A   B   S

59 57 55 53 51 49 47 45

SA1 SA2 SA3 SA4 SA5 SA6 SA7 SA8

SWITCHES B-side

59 57 55 53 51 49 47 45

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8