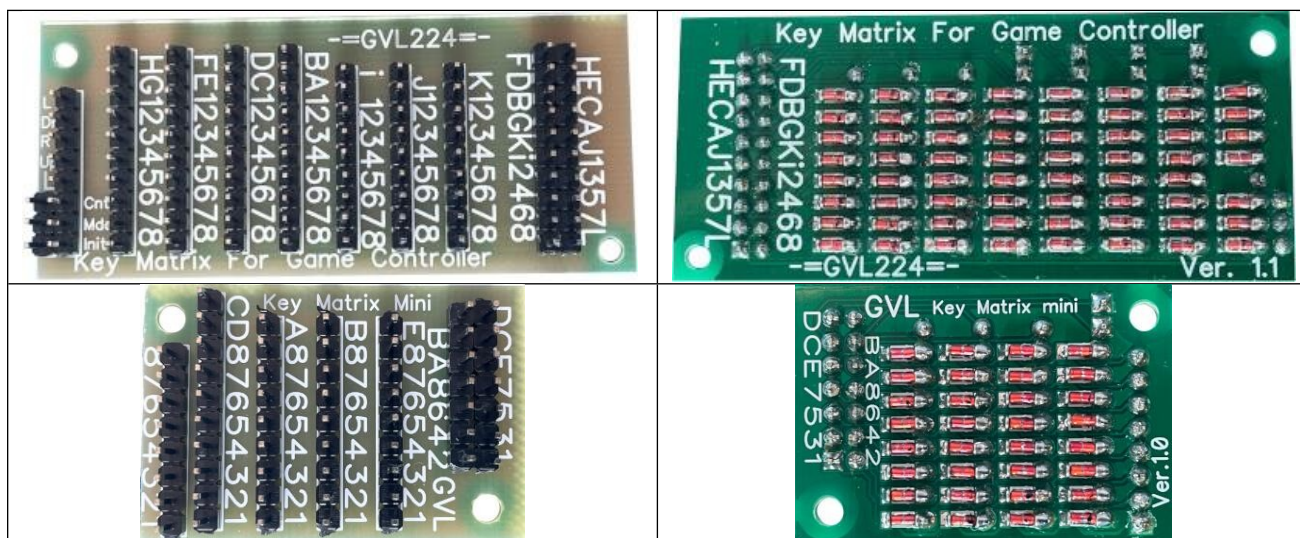


Diode Matrix



Description of the diode matrix (key matrix)

Diode matrices are used for easy connection of a large number of buttons, toggle switches and encoders to the controller (e.g. MJoy16, FreeJoy, MMJoy).

There are two sizes of diode matrices:

- Large 74mm*33mm, 8 x 12 "matrix", 96 pushbuttons and/or toggle switches, encoders and HATs can be connected simultaneously.
- The small 41mm*27mm board is a smaller version of the large board and has fewer buttons to connect. These boards can be connected in series. "Matrix" 8 x 5, up to 40 buttons and/or toggle switches, encoders and HATs can be connected.

2.54mm pitch connectors are used to connect the 'buttons' to the diode array.

Connection of buttons, toggle switches, encoders

For easy connection of the buttons to the controller, it is best to use BLS connectors with 2.54mm pitch.

"Sick" matrix:

1-8 (numeric) columns of the button matrix;

A, B, C, D, E, F, G, H, I, J, K, L (letters) are the columns of the button matrix;

	A	B	C	D	E	F	G	H	I	J	K	L
8	Button 8	Button 16	Button 24	Button 32	Button 40	Button 48	Button 56	Button 64	Button 72	Button 80	Button 88	Button 96
7	Button 7	Button 15	Button 23	Button 31	Button 39	Button 47	Button 55	Button 63	Button 71	Button 79	Button 87	Button 95
6	Button 6	Button 14	Button 22	Button 30	Button 38	Button 46	Button 54	Button 62	Button 70	Button 78	Button 86	Button 94
5	Button 5	Button 13	Button 21	Button 29	Button 37	Button 45	Button 53	Button 61	Button 69	Button 77	Button 85	Button 93
4	Button 4	Button 12	Button 20	Button 28	Button 36	Button 44	Button 52	Button 60	Button 68	Button 76	Button 84	Button 92
3	Button 3	Button 11	Button 19	Button 27	Button 35	Button 43	Button 51	Button 59	Button 67	Button 75	Button 83	Button 91
2	Button 2	Button 10	Button 18	Button 26	Button 34	Button 42	Button 50	Button 58	Button 66	Button 74	Button 82	Button 90
1	Button 1	Button 9	Button 17	Button 25	Button 33	Button 41	Button 49	Button 57	Button 65	Button 73	Button 81	Button 89
	A	B	C	D	E	F	G	H	I	J	K	L

"Small" matrix:

1-8 (numeric) columns of the button matrix;

A, B, C, D, E (letters) are the columns of the button matrix;

	A	B	C	D	E
8	Button 8	Button 16	Button 24	Button 32	Button 40
7	Button 7	Button 15	Button 23	Button 31	Button 39
6	Button 6	Button 14	Button 22	Button 30	Button 38
5	Button 5	Button 13	Button 21	Button 29	Button 37
4	Button 4	Button 12	Button 20	Button 28	Button 36
3	Button 3	Button 11	Button 19	Button 27	Button 35
2	Button 2	Button 10	Button 18	Button 26	Button 34
1	Button 1	Button 9	Button 17	Button 25	Button 33
	A	B	C	D	E

Connector connection options: