IC1

Pin	Label
DMA	23 A
DMB	22 B
DMC	21 C
DMD	20 D

0	1	BDMA0
1	2	BDMA1
2	3	BDMA2
3	4	BDMA3
4	5	BDMA4
5	6	BDMA5
6	7	BDMA6
7	8	BDMA7
8	9	BDMA8
9	10	BDMA9
10	11	BDMA10
11	13	BDMA11
12	14	BDMA12
13	15	BDMA13
14	16	BDMA14
15	17	BDMA15

DMEN 18 G1 19 G2

74HC154DW

BDM[0..15]

IC2

BDMA15 2 A1   Y1 18
BDMA14 3 A2   Y2 17   C16
BDMA13 4 A3   Y3 16   C15
BDMA12 5 A4   Y4 15   C14
BDMA11 6 A5   Y5 14   C13
BDMA10 7 A6   Y6 13   C12
BDMA9 8 A7   Y7 12   C11
BDMA8 9 A8   Y8 11   C10

1 G1
19 G2
GND

74HC540DW

C9

IC3

BDMA7 2 A1   Y1 18
BDMA6 3 A2   Y2 17   C8
BDMA5 4 A3   Y3 16   C7
BDMA4 5 A4   Y4 15   C6
BDMA3 6 A5   Y5 14   C5
BDMA2 7 A6   Y6 13   C4
BDMA1 8 A7   Y7 12   C3
BDMA0 9 A8   Y8 11   C2

1 G1
19 G2
GND

74HC540DW

C1

BDM[0..15]

VCC   +3V3
24 VCC   20 VCC   20 VCC
IC1P   IC2P   IC3P
C0   CP1   CP2   CP3
+   100n   100n   100n
GND 10u   12 GND   10 GND   10 GND
GND

TITLE:	led_matrix_control

4:16 demultiplexer for LED matrix
Phillip Durdaut

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