Buttons

SR_IN_CLOCK	SPI_CLK
SR_IN_LATCH	SR_IN_LATCH
SR_IN_DATA	SR_IN_DATA
SR_IN_DAISY	SR_DAISY_DATA
BC_0	BC_0
BC_1	BC_1
BC_2	BC_2
BC_3	BC_3
BC_4	BC_4
BC_5	BC_5
BC_6	BC_6
BC_7	BC_7

BRI?
From ModularDeck

MAX7219_LOAD	1	13	MAX7219_DIN
SR_IN_LATCH	2	14	MUX_COMMON_1
SR_IN_DATA	3	15	MUX_COMMON_2
SPI_CLK	4	16	MUX_COMMON_3
BC_0	5	17	MUX_COMMON_4
BC_1	6	18	MUX_S0
BC_2	7	19	MUX_S1
BC_3	8	20	MUX_S2
BC_4	9	21	MUX_S3
BC_5	10	22	GND
BC_6	11	23	+3.3V
BC_7	12	24	+5V

Multiplexer

MUX_COMMON_1	MUX_COMMON
MUX_S0	MUX_S0
MUX_S1	MUX_S1
MUX_S2	MUX_S2
MUX_S3	MUX_S3

LEDs

MAX7219_CLK	SPI_CLK
MAX7219_DIN	MAX7219_DIN
MAX7219_LOAD	MAX7219_LOAD
MAX7219_DOUT	MAX7219_DOUT

BRO?
To Any Breakout Board

MAX7219_LOAD	1	13	MAX7219_DOUT
SR_IN_LATCH	2	14	MUX_COMMON_2
SR_DAISY_DATA	3	15	MUX_COMMON_3
SPI_CLK	4	16	MUX_COMMON_4
BC_0	5	17	
BC_1	6	18	MUX_S0
BC_2	7	19	MUX_S1
BC_3	8	20	MUX_S2
BC_4	9	21	MUX_S3
BC_5	10	22	GND
BC_6	11	23	+3.3V
BC_7	12	24	+5V

C? 100n +3.3VADC

GND

U?
74HC4067

24	VCC	Y0	9	A_IN_0
12	GND	Y1	8	A_IN_1
15	E	Y2	7	A_IN_2
		Y3	6	A_IN_3
MUX_S0 10	S0	Y4	5	A_IN_4
MUX_S1 11	S1	Y5	4	A_IN_5
MUX_S2 14	S2	Y6	3	A_IN_6
MUX_S3 13	S3	Y7	2	A_IN_7
		Y8	23	A_IN_8
MUX_COMMOND 1	COM	Y9	22	A_IN_9
		Y10	21	A_IN_10
		Y11	20	A_IN_11
		Y12	19	A_IN_12
		Y13	18	A_IN_13
		Y14	17	A_IN_14
		Y15	16	A_IN_15

GND

AH?A
3x08

GND

AH?A
3x08

A_IN_15 9
A_IN_14 10
A_IN_13 11
A_IN_12 12
A_IN_11 13
A_IN_10 14
A_IN_9 15
A_IN_8 16

AH?B
3x08

A_IN_0 9
A_IN_1 10
A_IN_2 11
A_IN_3 12
A_IN_4 13
A_IN_5 14
A_IN_6 15
A_IN_7 16

AH?B
3x08

+3.3VADC

AH?C
3x08

+3.3VADC

AH?C
3x08

BC_0D

IH?

BC_1D

BC_2D

BC_3D

D? BR_0
D? BR_1
D? BR_2
D? BR_3
D? BR_4
D? BR_5
D? BR_6
D? BR_7

BC_4D

BC_5D

BC_6D

BC_7D

+3.3V

BR_7 R? 4.7k
BR_6 R? 4.7k
BR_5 R? 4.7k
BR_4 R? 4.7k
BR_3 R? 4.7k
BR_2 R? 4.7k
BR_1 R? 4.7k
BR_0 R? 4.7k

C? 100n

U?
74HC165

GND
GND

+3.3V

16 VCC
8   GND
15 CE
1   PL
2   CP
9   Q7
7   Q7
10 DS

D0 11 BR_3
D1 12 BR_2
D2 13 BR_1
D3 14 BR_0
D4 3   BR_4
D5 4   BR_5
D6 5   BR_6
D7 6   BR_7

SR_IN_LATCHD
SR_IN_CLOCKD
SR_IN_DATAD

SR_OUT_DAISYD