

Pin Mappings

ANODES (ROWS)

SR Label	SR Function	mCU Pin	Atmel Port	Atmel Function	Arduino Function	Notes
DS	Data	30	B6	PCINT6/OC1B/OC4B/ADC13	Digital 10	
SHCP	Clock	32	C7	ICP3/CLK0/OC4A	Digital 13	
STCP	Strobe	36	F7	ADC7/TDI	Analog 0	
OE/	Enable	37	F6	ADC6/TDO	Analog 1	
MR/	Reset	31	C6	OC3A/OC4A	Digital 5	

CATHODES (COLUMNS)

SR Label	SR Function	mCU Pin	Atmel Port	Atmel Function	Arduino Function	Notes
DS	Data	29	B5	PCINT5/OC1A/OC4B/ADC12	Digital 9	
SHCP	Clock	26	D6	T1/OC4D/ADC9	Digital 12	
STCP	Strobe	27	D7	T0/OC4D/ADC10	Digital 6	
OE/	Enable	28	B4	PCINT4/ADC11	Digital 8	
MR/	Reset	25	D4	ICP1/ADC8	Digital 4	

OTHER MAPPINGS

	Function	mCU Pin	Atmel Port	Atmel Function	Arduino Function	Notes
BTN1	Up	22	D5	XCL1/CTS	TXLED	Have to read directly from port
BTN2	Left	1	E6	INT6/AIN0	Digital 7	
BTN3	Right	21	D3	TXD1/INT3	Digital 1	
BTN4	Down	20	D2	RXD1/INT2	Digital 0	
BTN5	"B" lower	19	D1	SDA/INT1	Digital 2	
BTN6	"A" upper	18	D0	OC0B\SCL\INT0	Digital 3	
BATT	Battery Level	41	F0	ADC0	Analog 5	VREF = 5v, Battery pack will read approx. .7 to 3V TPS61222 Step-Up will boost from 0.7V min
SCK	Serial Clock	9	B1	PCINT1/SCK	SCK	
MOSI	Serial MOSI	10	B2	PDI/PCINT2/MOSI	MOSI	
MISO	Serial MISO	11	B3	PDO/PCINT3/MISO	MISO	
RST\	Serial Reset	13		Reset\	Reset	
Extra IO 1	Extra Digital Pin	12	B7	PCINT7/OC0A/OC1C/RTS	Digital 11	
Extra IO 2	Extra Digital Pin	8	B0	SS/PCINT0	RXLED	
Extra IO 3	Extra Analog Pin	40	F1	ADC0	Analog 4	
Extra IO 4	Extra Analog Pin	39	F4	ADC4/TCK	Analog 3	
Extra IO 5	Extra Analog Pin	38	F5	ADC5/TMS	Analog 2	