

## Atari Joystick ↔ Microcontroller Pin Mapping

Joystick Pin	Function	Left Controller		Right Controller	
		MCU Pin <sup>3</sup>	Color <sup>4</sup>	MCU Pin <sup>3</sup>	Color <sup>4</sup>
1	Scan <sup>1</sup>	14	Purple	9	Blue
2	Scan <sup>1</sup>	17	Black	10	Orange
3	Scan <sup>1</sup>	18	Gray	11	Yellow
4	Scan <sup>1</sup>	19	Orange	12	White
5	Output <sup>2</sup>	15	Brown	7	Red
6	Output <sup>2</sup>	13	Green	6	Green
7	+5V	N/A	White	VIN	Purple
8	GND	N/A	Blue	GND	Gray
9	Output <sup>2</sup>	16	Yellow	8	Black

<sup>1</sup> Scanned from Console to MCU

<sup>2</sup> Output from MCU to Console

<sup>3</sup> Digital I/O pin number

<sup>4</sup> Colors for video/presentation reference only. Unlikely to be the same in all cables.

## PS/2 Keyboard ↔ Microcontroller Pin Mapping

PS/2 Pin	Function	MCU Pin <sup>3</sup>	Color <sup>4</sup>
1	Data	4	Green
3	GND	GND	Gray
4	+5V	VIN	Purple
5	Clock	3	White