

**SHARKDUINO****CONNECTORS****Y4 POWER CONNECTOR**

PIN	SIGNAL	DESCRIPTION
1	PWR	VDC input 7 to 22V max
2	GND	Power supply return

Y9 A/D INPUT

PIN	SIGNAL	DESCRIPTION
1	CHAN 0	A/D input 0-2.5 5V max
2	CHAN 1	A/D input 0-2.5 5V max
3	CHAN 2	A/D input 0-2.5 5V max
4	CHAN 3	A/D input 0-2.5 5V max
5	CHAN 4	A/D input 0-2.5 5V max
6	CHAN 5	A/D input 0-2.5 5V max
7	CHAN 6	A/D input 0-2.5 5V max
8	CHAN 7	A/D input 0-2.5 5V max

Y10 PORT I/O

PIN	SIGNAL	DESCRIPTION
1	RXD	TTL Serial input
2	TXD	TTL Serial output
3	PF0	Bidirectional I/O port
4	PF1	Bidirectional I/O port
5	PF2	Bidirectional I/O port
6	PF3	Bidirectional I/O port
7	PF4	Bidirectional I/O port
8	PF5	Bidirectional I/O port

Y11 PORT I/O AND D/A

PIN	SIGNAL	DESCRIPTION
1	PA4	Bidirectional I/O port
2	PA5	Bidirectional I/O port
3	PA6	Bidirectional I/O port
4	PA7	Bidirectional I/O port
5	D/A 0	D/A CH 0 0-5V
6	D/A 1	D/A CH 1 0-5V
7	ADREF	2.5 V Reference
8	PPICLK	PPI Clock Input

Y12 PORT I/O AND D/A

PIN	SIGNAL	DESCRIPTION
1	NC	No connection
2	RESET	Active low RESET out
3	RESET	Active low RESET out
4	+3.3V	VLogic
5	+5V	VAnalogic
6	GND	Power supply return
7	GND	Power supply return
8	PWR	Power input

Y13 PORT I/O

PIN	SIGNAL	DESCRIPTION
1	PF6	Bidirectional I/O port
2	PF7	Bidirectional I/O port
3	SPISEL	SPI Select (Active low)
4	MOSI	Master Out Slave In
5	MISO	Master In Slave Out
6	SCK	SPI clock
7	GND	Power supply return
8	EXREF	A/D Reference input
9	SDA	I ² C Data
10	SCL	I ² C Clock

Y14 PORT I/O

PIN	SIGNAL	DESCRIPTION
1	PG0	Bidirectional I/O port
2	PG1	Bidirectional I/O port
3	PG2	Bidirectional I/O port
4	PG3	Bidirectional I/O port
5	PG4	Bidirectional I/O port
6	PG5	Bidirectional I/O port
7	PG6	Bidirectional I/O port
8	PG7	Bidirectional I/O port

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