

Electronics Parts List

Last Updated: November 25, 2014

1 MCUs

Vendor	Serial	CPU	Clock Speed	Flash	Pin Count	Power Supply	Operational Temps	Status
Atmel	ATmega329P-PU	8bit AVR	20MHz	32Kb	28	1.8-5.5V	40-85	Faulty in Freetronics Eleven; Need replacement

2 MOSFETs

Vendor	Serial	V_{DSS}	$I_{DC,25C}$	$I_{DC,100C}$	I_{DP}	I_{GSS}	T_{oper}	Status
Fairchild	FQP30N06L	60V	32A	22.6A	128A	$\pm 20V$	$-55^{\circ}C - +175^{\circ}$	Last order: 2014-11-24 via Sparkfun
Int. Recti	IRFS3006PBF	60V	270A	191A	1080A	$\pm 20V$	$-55^{\circ}C - +175^{\circ}$	Not ordered. These are expensive

3 Drivers

Vendor	Serial	Size	V_s Range	I_{out} Per Channel	I_{out} Peak Per Channel	Status
Texas Instruments	L293	Quadruple Half-H Drivers	4.5V – 36V	1A	2A	Supplied from Carl; Need to buy
Texas Instruments	DRV8302	56 Pin Gate Driver	8V – 60V			Not Ordered.