

Electronics Parts List

Last Updated: December 3, 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	One in stock

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	IRF1405	55V	169A	118A	680A	$\pm 20V$	$-55^{\circ}C - +175^{\circ}$	6 (+6 from Carl) in stock. Used in PB1
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	2 (+1 from carl)
Texas Instruments	DRV8302	56 Pin Gate Driver	8V – 60V			Not Ordered.
Int. Recti	IR2011PBF	8 Pin Gate Driver	225V	1A		Not Ordered. Available from Jaycar
ST M.elec.	L6234	3Phase Gate Driver (with bridges)	52V	5A		Not Ordered. May not be legal