

Part Name	Part Description	Manufacturer Part Number	Amps	Duty	Nom	Der	12-V Draw (Amps)
ATmega162	ATMEL Microcontroller for Supervisory, Wired, Wireless	ATMEGA162-16PI	0.020	1.000	0.020		
MAX232	RS-232 Transceiver for Supervisory connection to PC	MAX232CPE	0.015	1.000	0.015		
75176	Differential Line Driver for wired network	SN75176AP	0.050	0.000	0.000		
7805	Voltage Regulator for supervisory and ceiling nodes	LM78L05ACZ	0.100	0.000	0.000		
Axiom6811EVBU	Axiom 6811 development board for central control and nav.	CME11E9-EVBU	0.080	1.000	0.080		
IREnc/Dec	IR Encoder/Decoder for wireless	MCP2120-I/P	0.020	0.000	0.000		
IRTx	Potential IR Transmitter for wireless	(see PPT from last semester)	0.100	0.100	0.010		
GAL	GAL for sanity	GAL16V8D	0.080	1.000	0.080		
PIC16F73	PIC Microcontroller for motor control	PIC16F73-I/SP	0.020	1.000	0.020		
ObjSensor	Reflective Object Sensor for motor control	OPB742	0.240	0.170	0.041		
LEDs	Indicators		0.100	1.000	0.100		
spare					0.000		
spare					0.000		
spare					0.000		
Allocation			0.400	1.000	0.400		
		5-V Demand	1.225		0.766		
		Converter Efficiency	0.800				0.399
Drive Motor - Left	GFE		1.350				
Drive Motor - Right	GFE		1.350				
H-Bridge Support			0.100				
spare							
spare							
spare							
		Drive Demand	2.800	1	2.800		2.800
		TOTAL DEMAND					3.199
Note:	Duty represents the percentage of time the part will draw full power						