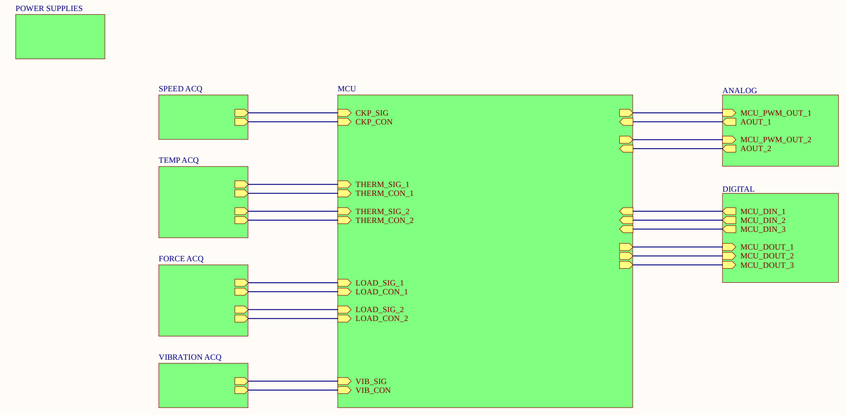
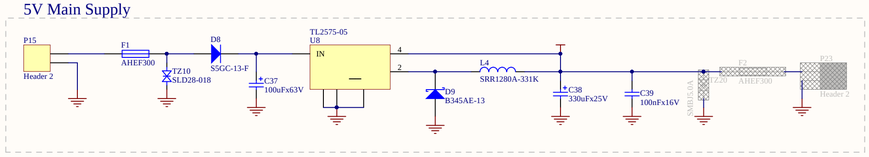


H1 Hole H2 Hole H3 Hole H4 Hole

Title: Summary		Version: 2.0
Project: BTB.PrjPcb *	Author: João Guimarães	
Date: 10/11/2018	1 9	
File: C:\Users\joaog\Documents\braketestbench\hardware\Mainboard-2.0\Source\Summary.SchDoc		

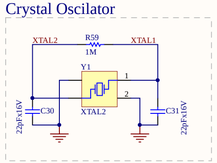
5V Main Supply



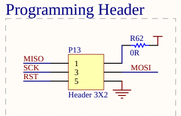
4V1 Main Supply

Title: Power Supplies		Version: 2.0	
Project: BTB.PrjPcb	Author: João Guimarães		
Date: 10/11/2018	2	9	
File: C:\Users\joaog\Documents\braketestbench\hardware\Mainboard-2.0\Source\PowerSupplies.SchDoc			

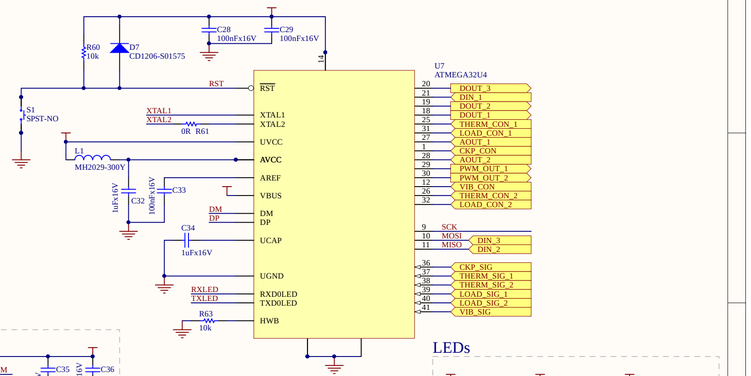
Crystal Oscilator



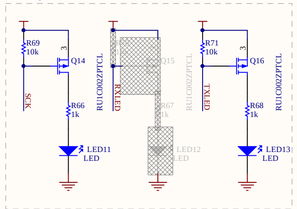
Programming Header



USB Connector and Protection

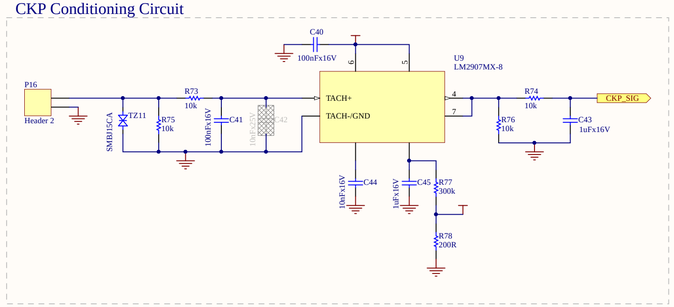


LEDs



Title: MCU		Version: 2.0
Project: BTB.PrjPcb *	Author: João Guimarães	
Date: 10/11/2018	3 9	
File: C:\Users\joaog\Documents\braketestbench\hardware\Mainboard-2.0\Source\MCU.SchDoc		

CKP Conditioning Circuit

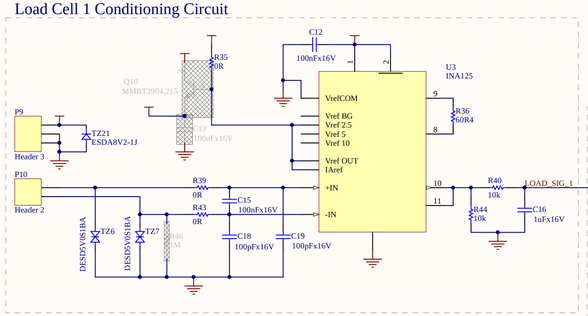


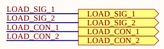
CKP Detection Circuit

1V2 Voltage Reference

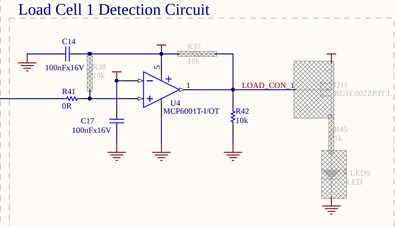
Title: SpeedACQ		Version: 2.0	
Project: BTB.PrjPcb	Author: João Guimarães		
Date: 10/11/2018	4	9	
File: C:\Users\joaog\Documents\braketestbench\hardware\Mainboard-2.0\Source\SpeedACQ.SchDoc			

Load Cell 1 Conditioning Circuit





Load Cell 1 Detection Circuit

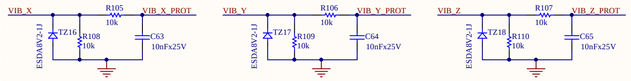


Load Cell 1 Conditioning Circuit

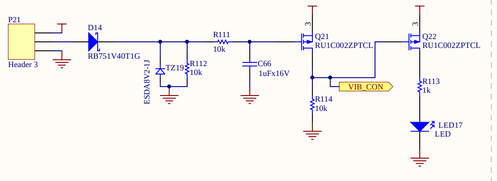
Load Cell 1 Detection Circuit

Title: ForceACQ		Version: 2.0	
Project: BTB.PrjPcb *		Author: João Guimarães	
Date: 10/11/2018	5	9	
File: C:\Users\joaog\Documents\braketestbench\hardware\Mainboard-2.0\Source\ForceACQ.SchDoc			

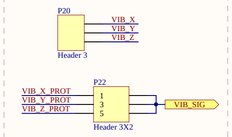
Accelerometer Filtering Circuit



Accelerometer Detection Circuit

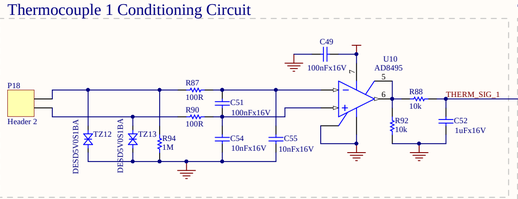


Connectors

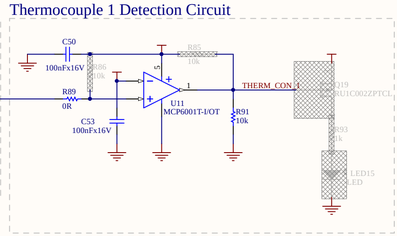


Title: VibrationACQ		Version: 2.0	
Project: BTB.PrjPcb	Author: João Guimarães		
Date: 10/11/2018	6	9	
File: C:\Users\joaog\Documents\braketestbench\hardware\Mainboard-2.0\Source\VibrationACQ.SchDoc			

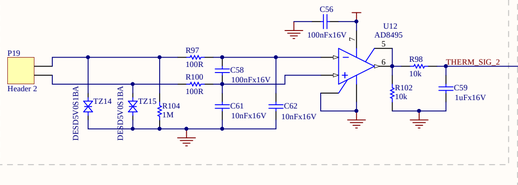
Thermocouple 1 Conditioning Circuit



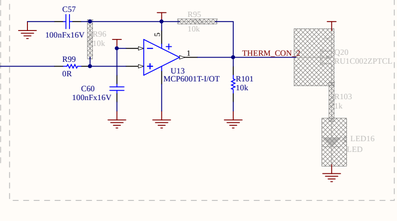
Thermocouple 1 Detection Circuit



Thermocouple 2 Conditioning Circuit



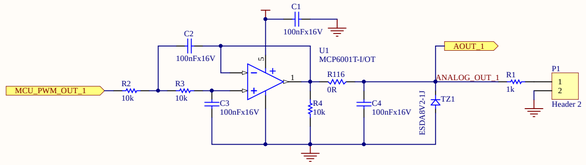
Thermocouple 2 Detection Circuit



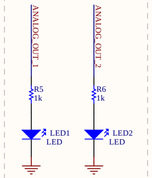
THERM_SIG_1 — THERM_SIG_1
THERM_SIG_2 — THERM_SIG_2
THERM_CON_1 — THERM_CON_1
THERM_CON_2 — THERM_CON_2

Title: TemperatureACQ		Version: 2.0
Project: BTB.PrjPcb	Author: João Guimarães	
Date: 10/11/2018	7 9	
File: C:\Users\joaog\Documents\braketestbench\hardware\Mainboard-2.0\Source\TemperatureACQ.SchDoc		

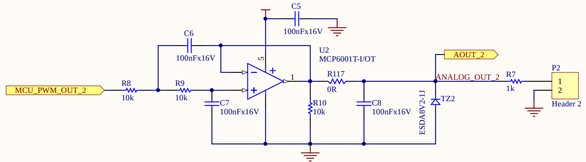
DAC 1



LEDs

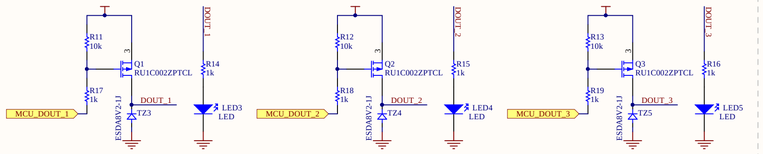


DAC 2

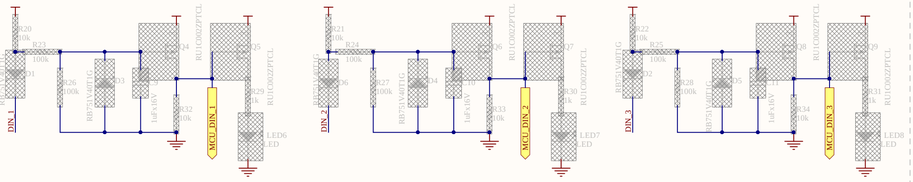


Title: Analog Output		Version: 2.0	
Project: BTB.PrjPcb *		Author: João Guimarães	
Date: 10/11/2018	8	9	
File: C:\Users\joaog\Documents\braketestbench\hardware\Mainboard-2.0\Source\AnalogOutput.SchDoc			

Digital Output Interface



Digital Input Interface



Connectors

Title: Digital Interfaces		Version: 2.0	
Project: BTB.PrjPcb 9		Author: João Guimarães	
Date: 10/11/2018		"	"
File: C:\Users\joaog\Documents\braketestbench\hardware\Mainboard-2.0\Source\DigitalInterfaces.SchDoc			