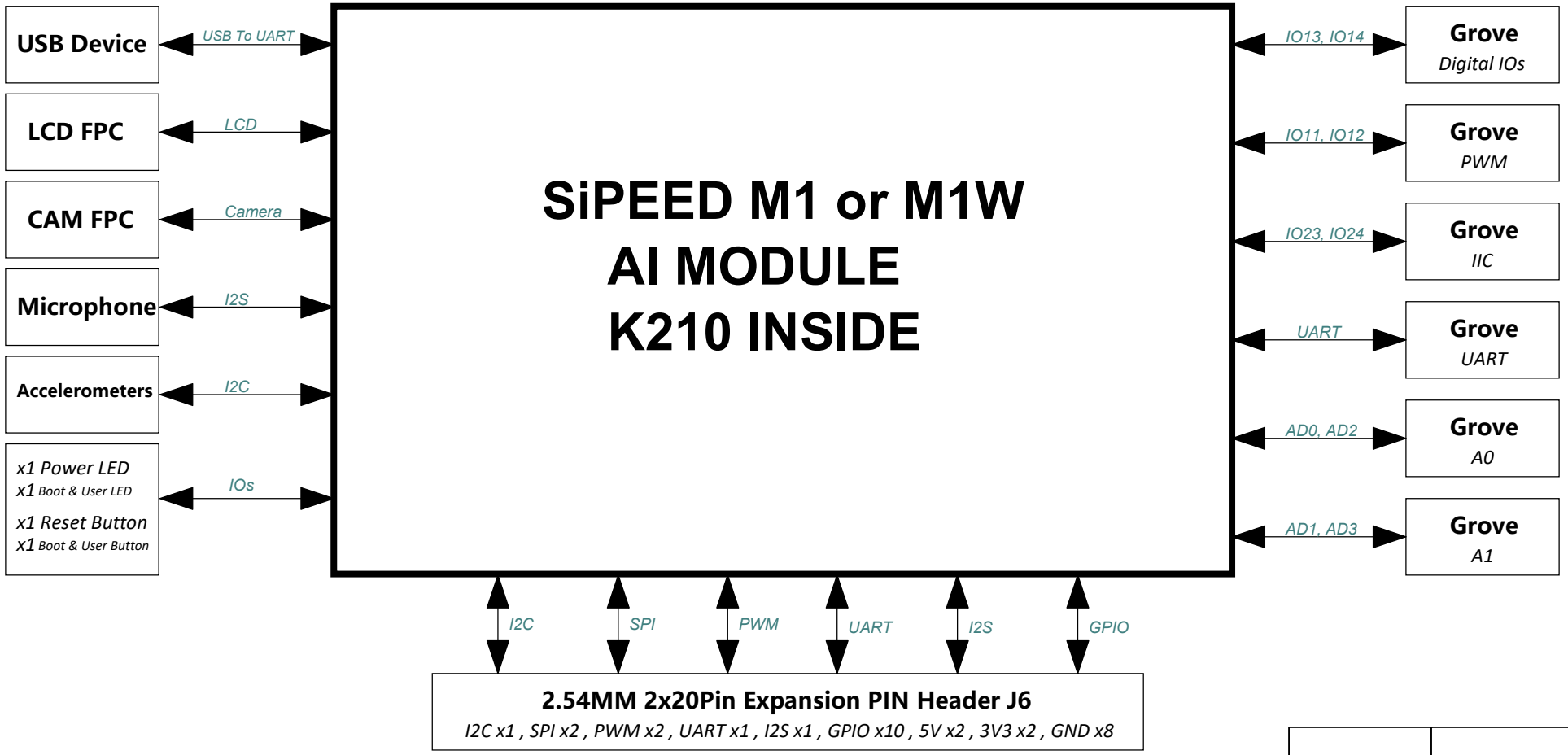
Schematic: Grove AI HAT for Edge Computing

SHEET	SHEET NAME
01	Revision/Block Diagram
02	M1/CAM/LCD/AD/Grvoe/MIC/ACC

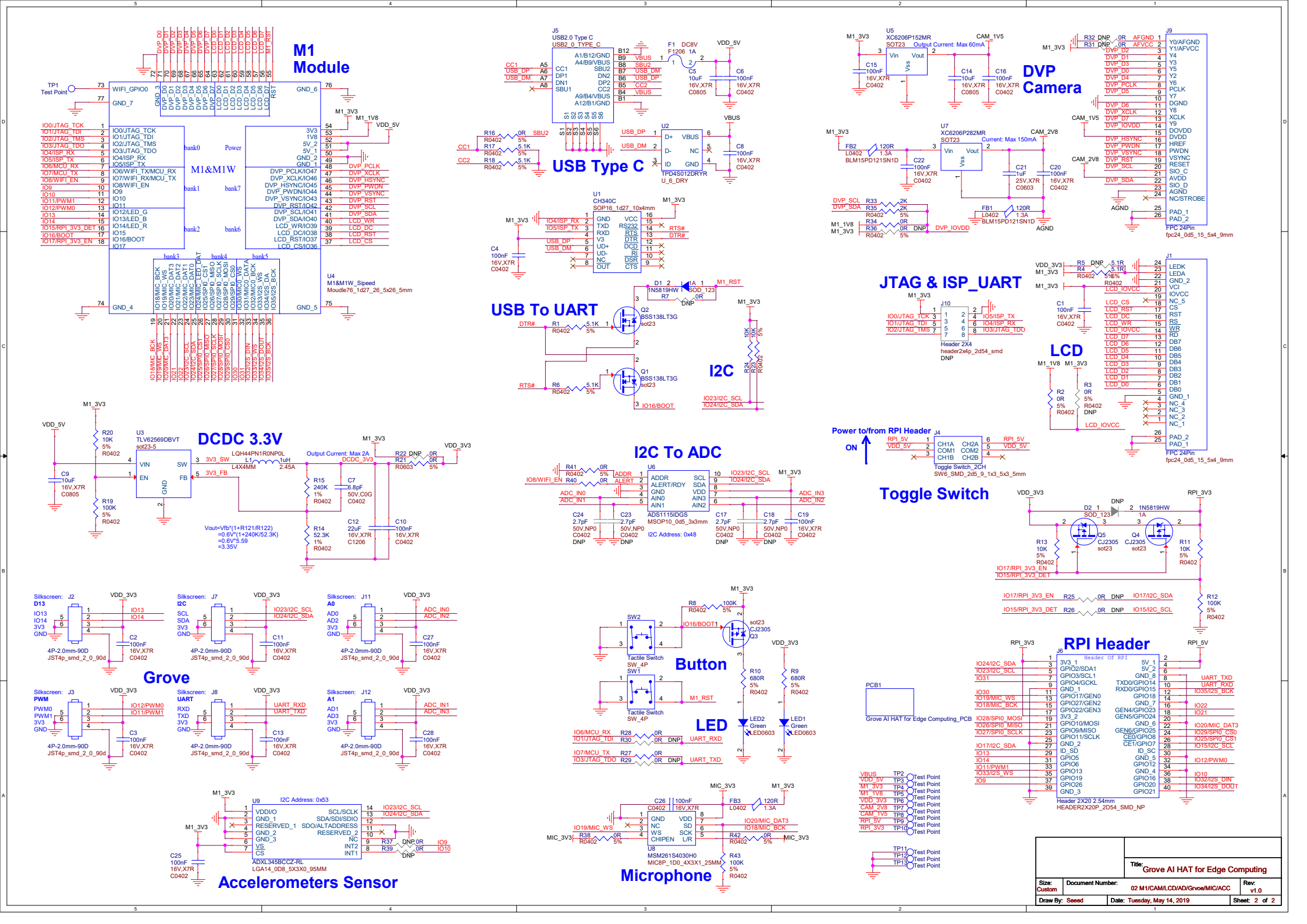
Revision History

DATE	REVISION	DESCRIPTION
2019/05/14	Grove AI HAT for Edge Computing_v1.0_SCH_190514	Initial Release

Grove AI HAT for Edge Computing Block Diagram



Title:	Grove AI HAT for Edge Computing
Size: A3	Document Number: 01 Revision/Block Diagram
Rev: v1.0	
Draw By: Seeed	Date: Tuesday, May 14, 2019
Sheet: 1 of 2	


M1 Module
M1&M1W
U4
M1&M1W_Sipeed
Moudle76_1d27_26_5x26_5mm
USB Type C
USB2.0 Type C
USB2_0_TYPE_C
TPD4S012DRYR
U_6_DRY
USB To UART
U1
CH340C
SOP16_1d27_10x4mm
I2C
DCDC 3.3V
U3
TLV62569DBVT
sot23-5
Vout=Vfb*(1+R121/R122)
=0.6V*(1+240K/52.3K)
=0.6V*5.59
=3.35V
I2C To ADC
ADS1115IDGS
MSOP10_0d5_3x3mm
I2C Address: 0x48
DVP Camera
XC6206P152MR
SOT23
Output Current: Max 60mA
XC6206P282MR
Current: Max 150mA
JTAG & ISP_UART
Header 2X4
header2x4p_2d54_smd
LCD
Toggle Switch
Power to/from RPI Header
ON
Toggle Switch_2CH
SW6_SMD_2d5_9_1x3_5x3_5mm
Grove
Silkscreen: J2
D13
Silkscreen: J7
I2C
Silkscreen: J11
A0
Silkscreen: J3
PWM
Silkscreen: J8
UART
Silkscreen: J12
A1
4P-2.0mm-90D
JST4p_smd_2_0_90d
Button
Tactile Switch
SW_4P
LED
Accelerometers Sensor
U9
I2C Address: 0x53
ADXL345BCCZ-RL
LGA14_0D8_5X3X0_95MM
Microphone
U8
MSM261S4030H0
MIC8P_1D0_4X3X1_25MM
RPI Header
Header 2X20 2.54mm
HEADER2X20P_2D54_SMD_NP
PCB1
Grove AI HAT for Edge Computing_PCB
Title: Grove AI HAT for Edge Computing
Size: Custom
Document Number: 02 M1/CAM/LCD/AD/Grvoe/MIC/ACC
Rev: v1.0
Draw By: Seeed
Date: Tuesday, May 14, 2019
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