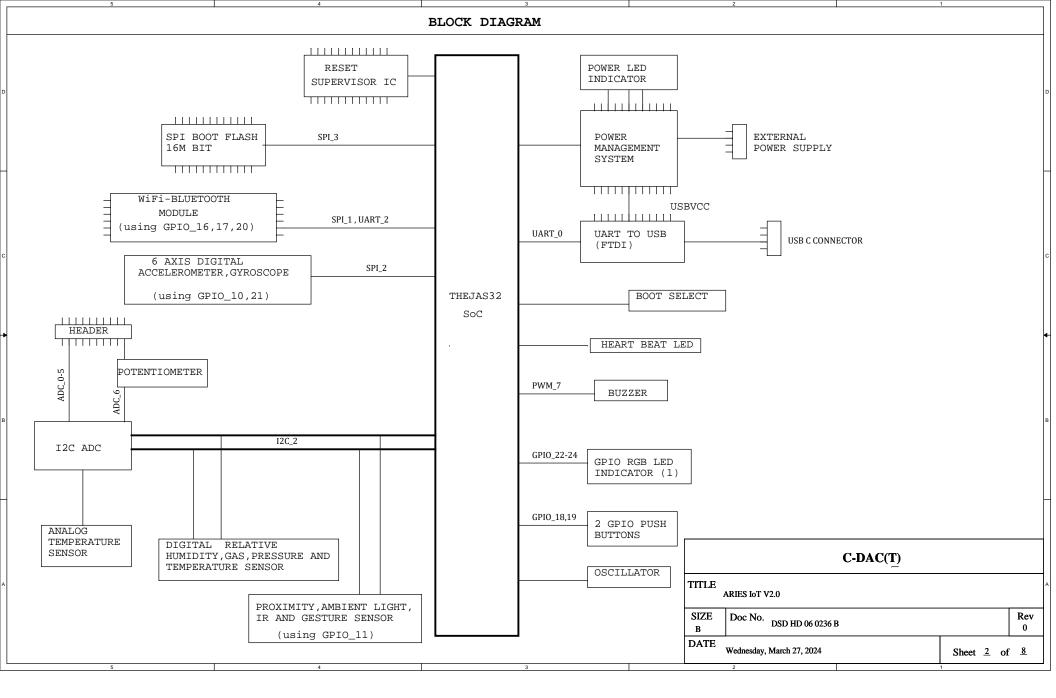
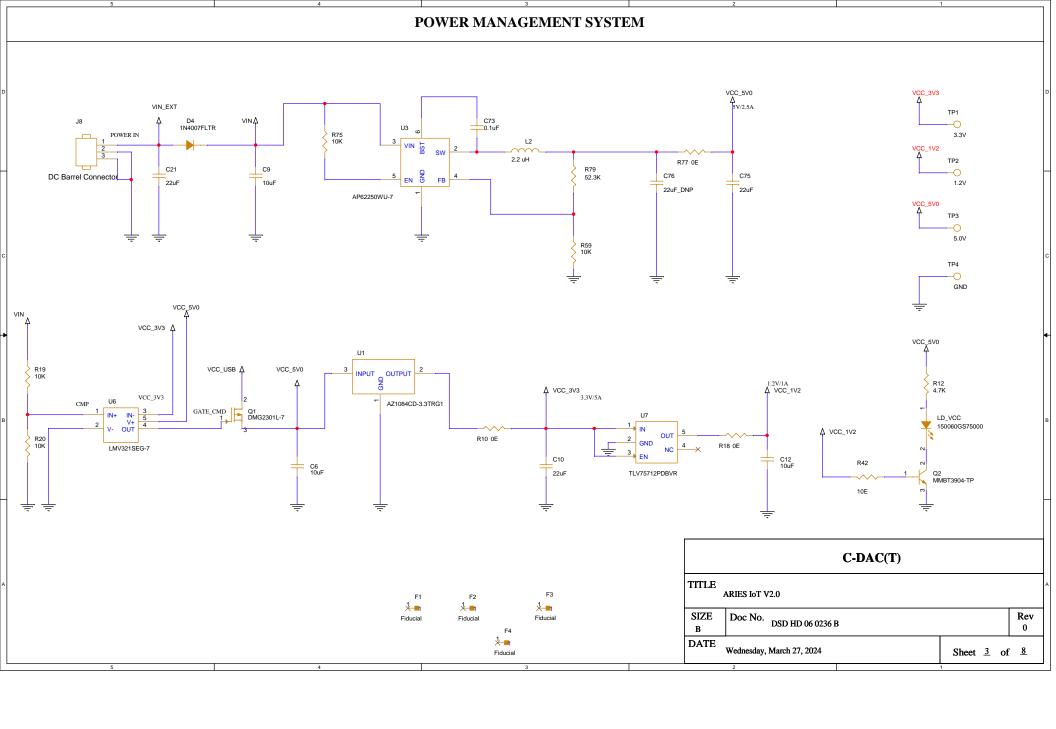
ARIES IOT v2.0		
Centre For Development Of Advanced Computing		
www.cdac.in		
Function	Sheet Number	
COVER SHEET	1	
BLOCK DIAGRAM	2	
POWER MANAGEMENT SYSTEM	3	
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PROXIMITY-AMBIENT LIGHT- IR- GESTURE SENSOR, ANALOG TEMPERATURE SENSOR, 6 AXIS ACCELEROMETER-GYROSCOPE, BUZZER, DIGITAL HUMIDITY- GAS- PRESSURE- TEMPERATURE SENSOR	5	
WIFI- BLUETOOTH MODULE	6	
THEJAS32 SOC CHIP	7	
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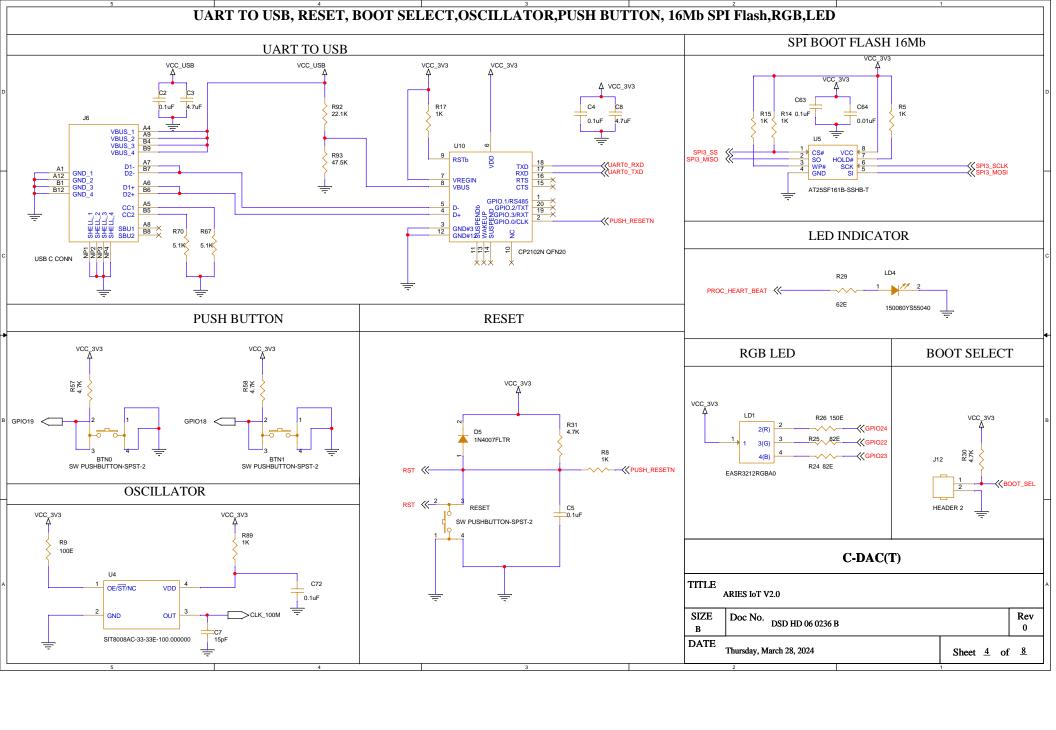


ARIES IOT v2.0

C-DAC(T)				
TITLE	ARIES IoT V2.0			
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ACCELEROMETER-GYROSCOPE, BUZZER, DIGITAL RELATIVE HUMIDITY, GAS, PRESSURE AND TEMPERATURE SENSOR ANALOG TEMPERATURE SENSOR WITH VOLTAGE OUTPUT, PROXIMITY, AMBIENT LIGHT, IR AND GESTURE SENSOR POTENTIOMETER FOR ANALOG ADC INPUT VCC_3V3 VCC_3V3 VCC 3V3 VCC 3V3 R103 R71 5E R73 R72 10K GPIO11 ⟨⟨-C71 10uF R104 THERM_1 <<-22E U9 C70 10uF ÷ R69 10K +VDD C41 C66 CH1 CH2 0.1uF CH2 CH3 CH4 CH5 CH6 CH7 COM REF IN / REF OUT VDD LEDK ADC_CH4 C65 1uF LDR ADC CH5 SDA SCL A1 A0 GND GND INT THERM_1 ADC_COMMON <<-LEDA SDA R102 VCC 3V3 APDS-9960 0E ADS7828E/2K5 0E Slave Address : 0X39 (0111001 Slave Address : 0X48 (1001000) DIGITAL RELATIVE HUMIDITY, GAS, PRESSURE 6 AXIS DIGITAL ACCELEROMETER, GYROSCOPE **BUZZER** AND TEMPERATURE SENSOR VCC_3V3 VCC_3V3 PS : GND = SPI Mode PS : VDDIO = I2C Mod VCC_3V3 U12 ÷ CSB : 0 = SPI Mode VDD VCC_3V3 VCC_3V3 C40 C67 CSB : 1 = I2C Mode 0.1uF 0.1uF GND0 U14 ÷ SPI2_SCLK > SCK INT1_ACCEL -<<SDA_2 SDI SDO1 SDO2 CSB1_ACCEL CSB2_GYRO INT2_ACCEL VDDIO SDI INT3_GYRO INT4_GYRO LS1 D7 Buzzer SDO SCK VDD 1N4007FLTR BME680 VDDIO GND GNDIO Slave Address : 0X76 (1110110 C79 C78 0.1uF BMI088 0.1uF C-DAC(T) Q3 MMBT3904- **FTITLE** ÷ 180E ÷ </n> ✓NT1_ACCEL ARIES IoT V2.0 GPIO10 ≪ ÷ R78 0E_DNP R101 SIZE Rev Doc No. DSD HD 06 0236 B 0 DATE -≪ INT3_GYRO -≪ INT2_ACCEL Thursday, March 28, 2024 Sheet 5 of 8

PROXIMITY- AMBIENT LIGHT-IR-GESTURE SENSOR, ANALOG TEMPERATURE SENSOR,

