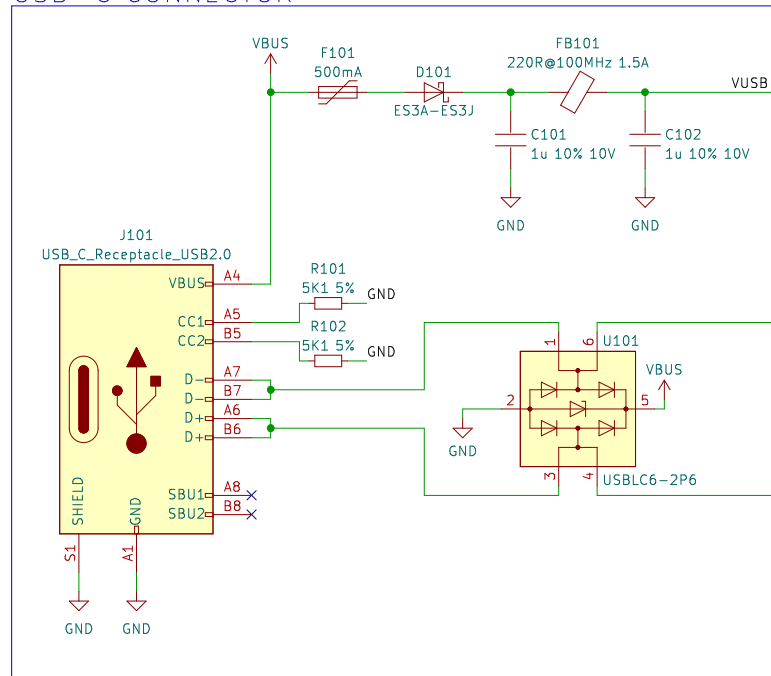
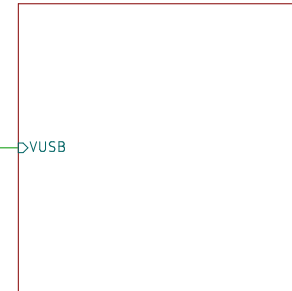


USB-C CONNECTOR

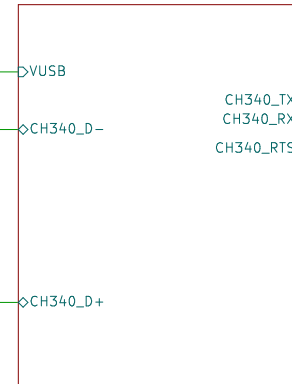


ATEGO_NANO_POWER



File: ATEGO_NANO_POWER.kicad_sch

INTERFACE_USB_CH340E



File: INTERFACE_USB_CH340E.kicad_sch

MCU_ATMEGA328P-AU



File: MCU_ATMEGA328P-AU.kicad_sch

sud0-junkie

Sheet:

File: Atego_Nano.kicad_sch

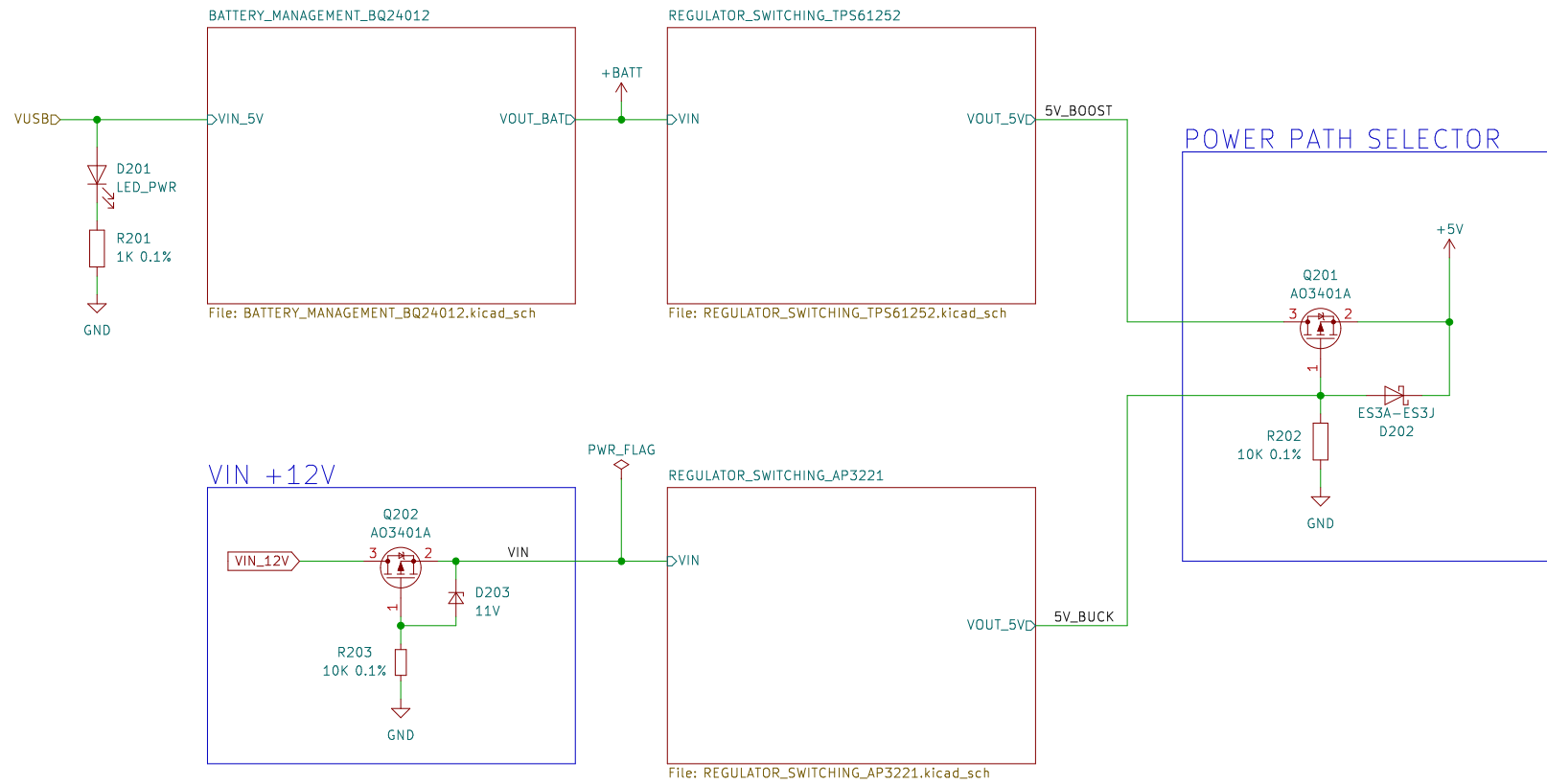
Title: Atego Nano

Size: A4 Date: 2023-06-28

KiCad E.D.A. kicad (7.0.0)

Rev: 1.1

Id: 1/7



sudo-junkie

Sheet:

File: ATEGO_NANO_POWER.kicad_sch

Title: Atego Nano

Size: A4

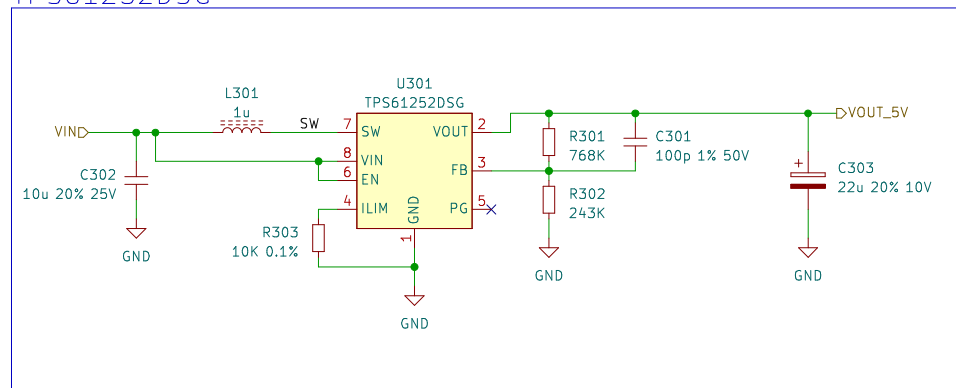
Date: 2023-06-28

Rev: 1.1

KiCad E.D.A. kicad (7.0.0)

Id: 2/7

TPS61252DSG



sudo-junkie

Sheet:

File: REGULATOR_SWITCHING_TPS61252.kicad_sch

Title: Atego Nano

Size: A4

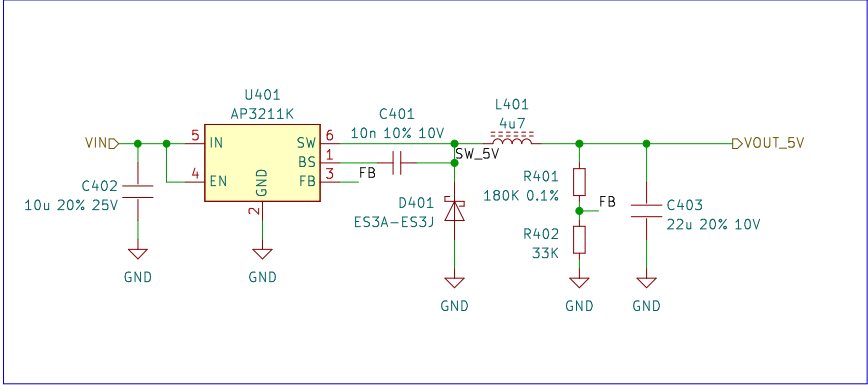
Date: 2023-06-28

Rev: 1.1

KiCad E.D.A. kicad (7.0.0)

Id: 3/7

AP3221 BUCK REGULATOR



sudo-junkie

Sheet:

File: REGULATOR_SWITCHING_AP3221.kicad_sch

Title: Atego Nano

Size: A4

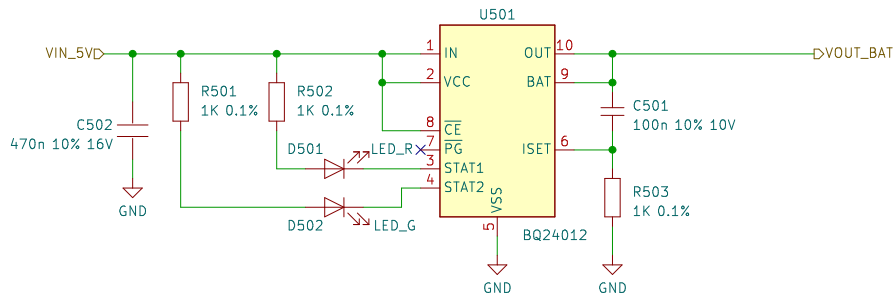
Date: 2023-06-28

Rev: 1.1

KiCad E.D.A. kicad (7.0.0)

Id: 4/7

BQ24012



$$I_{O(OUT)} = \frac{(K_{(SET)} \times V_{(SET)})}{R_{(SET)}}$$

PARAMETER		TEST CONDITIONS	MIN	TYP	MAX	UNIT
$V_{(SET)}$	Output current set voltage	Voltage on ISET pin, $V_{CC} \geq 4.5 V$, $V_{IN} \geq 4.5 V$, $V_{I(BAT)} > V_{(LOWV)}$, $V_{IN} - V_{I(BAT)} > V_{(DO-MAX)}$, $V_{O(REG)} = 4.2 V$	2.45	2.50	2.55	V
		bq24010, bq24012, bq24013, bq24014	2.548	2.6	2.652	V
$K_{(SET)}$	Output current ISET factor	$50 mA \leq I_{O(OUT)} \leq 1000 mA$, $V_{(LOWV)} < V_{(OUT)} < V_{(RCH)}$	315	335	355	
		$25 mA \leq I_{O(OUT)} < 50 mA$, $V_{(LOWV)} < V_{(OUT)} < V_{(RCH)}$	315	372	430	
		$10 mA \leq I_{O(OUT)} < 100 mA$, $V_{(OUT)} < V_{(LOWV)}$	350		1000	
		$2.5 mA \leq I_{O(OUT)} < 10 mA$, $V_{(OUT)} < V_{(LOWV)}$		450		
		$2.5 mA \leq I_{O(OUT)} < I_{(PGM)}$, $V_{(OUT)} < V_{(RCH)}$		355 ⁽³⁾		

sudo-junkie

Sheet:

File: BATTERY_MANAGEMENT_BQ24012.kicad_sch

Title: Atego Nano

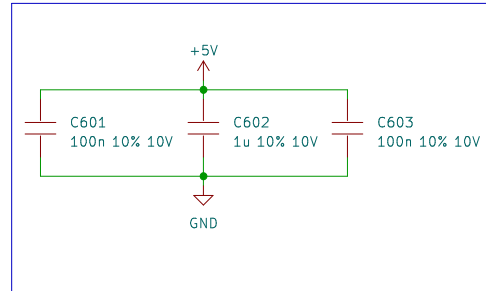
Size: A4 Date: 2023-06-28

KiCad E.D.A. kicad (7.0.0)

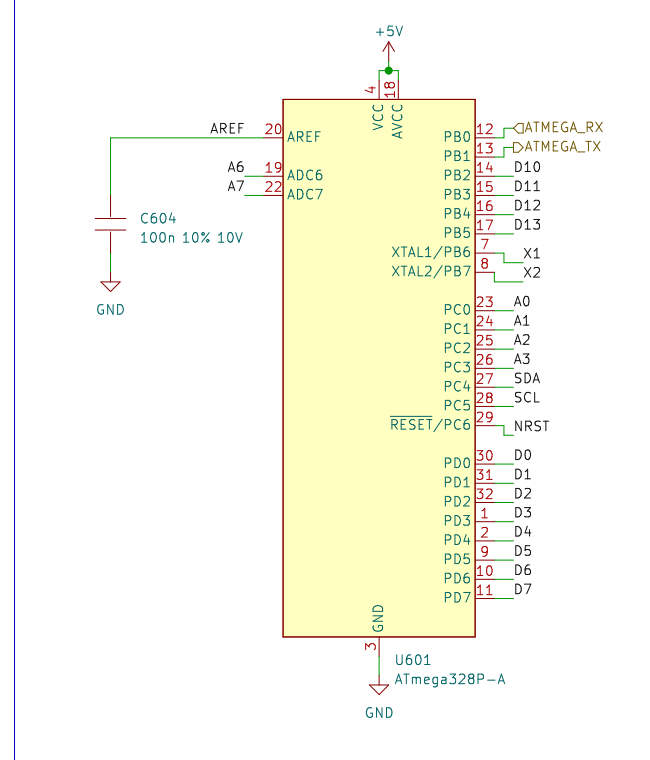
Rev: 1.1

Id: 5/7

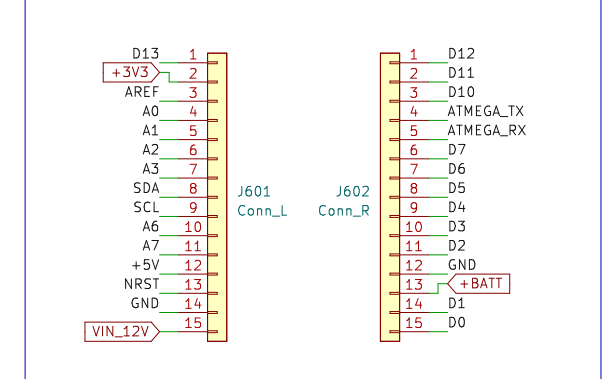
POWER & DECOUPLING



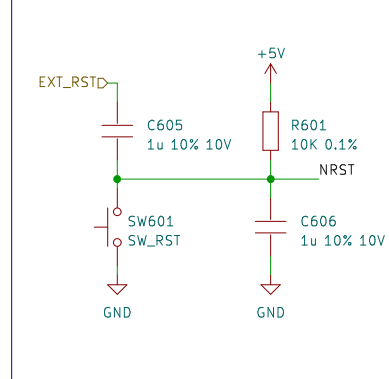
ATMEGA328P-A



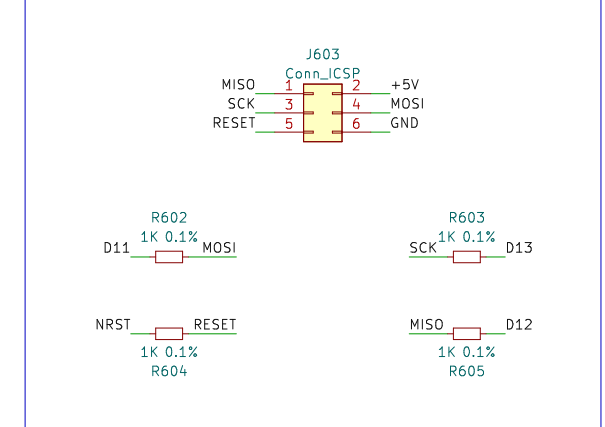
GPIO HEADERS



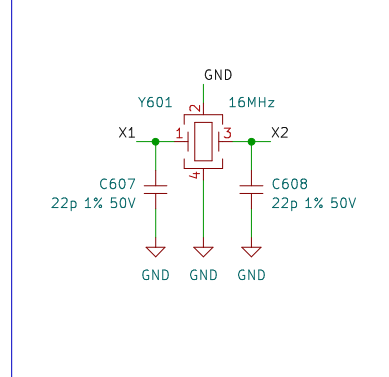
RESET CIRCUIT



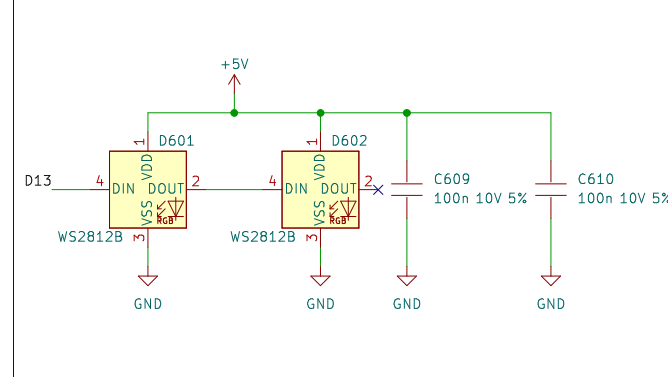
ICSP HEADER



CRYSTAL OSCILLATOR



USER LEDs



sudo-junkie

Sheet:

File: MCU_ATMEGA328P-AU.kicad_sch

Title: Atego Nano

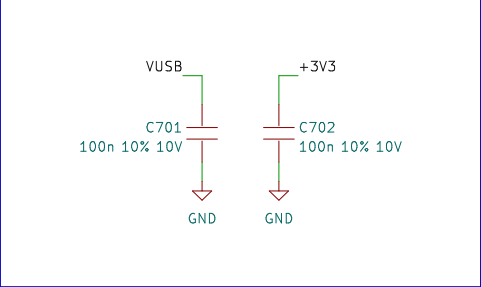
Size: A4 Date: 2023-06-28

KiCad E.D.A. kicad (7.0.0)

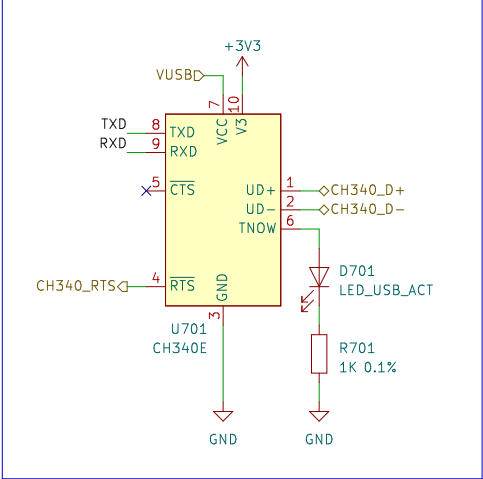
Rev: 1.1

Id: 6/7

POWER & DECOUPLING



CH340E



UART LEDs

