

Features

- 6 RS-485 I/O ports, 12V DC output for RS-485 sensors
- MCU weaken up every 1min(adjustable) by an external low-power timer
- Battery powered, charged by solar panel or 12V DC adapter
- Using GPRS or LoRa to transmit data
- 1 power on/off switch, 1 2-colours LED
- System contains 2 boards, Main board and Communication board

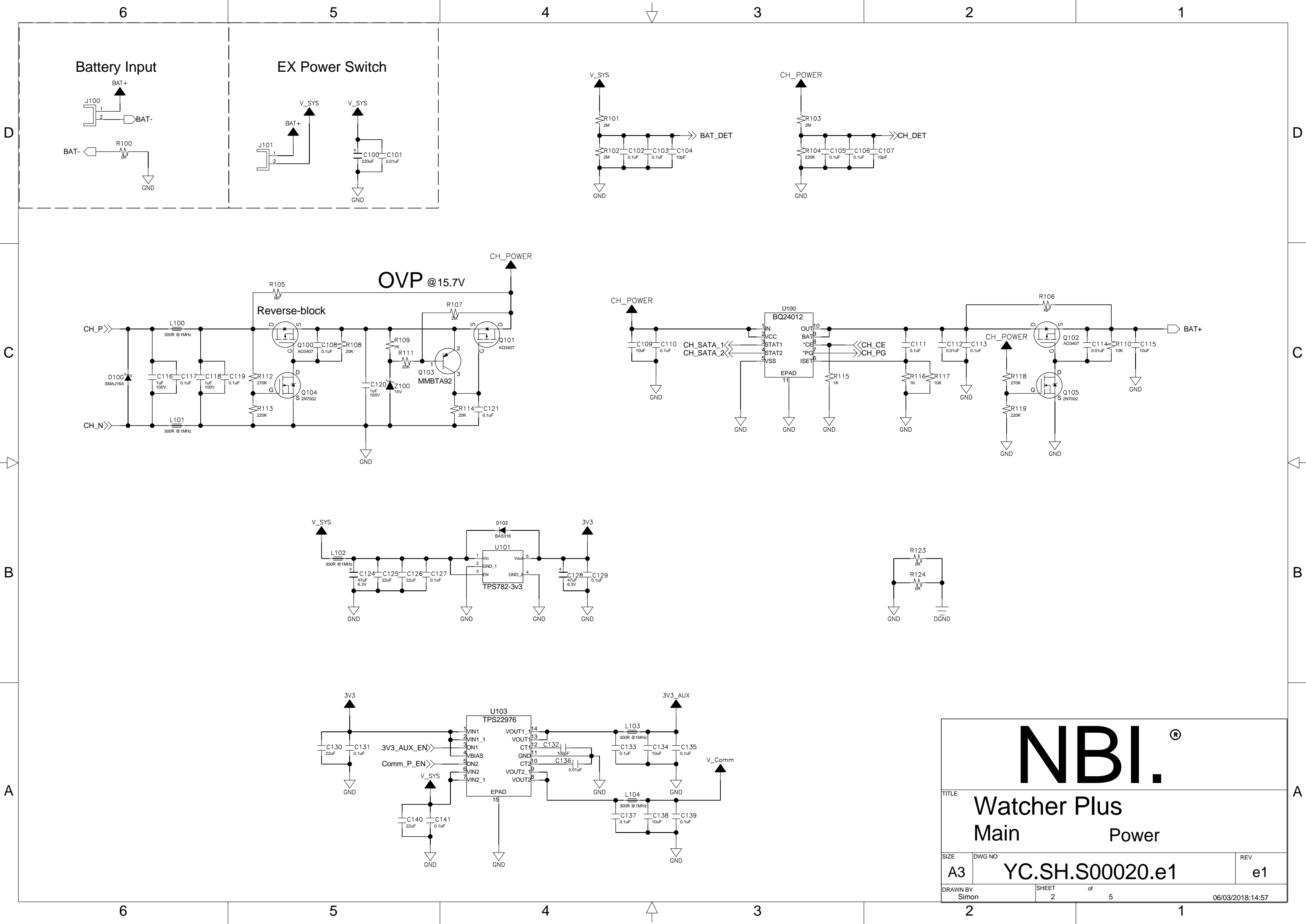
Revision history

Date	Revision	Changes
03-Mar-18	e1	Initial release. (prototype 1)

NBI.®

Watcher Plus
Main Description

SIZE	DWG NO	REV
A3	YC.SH.S00020.e1	e1
DRAWN BY Simon	SHEET 1 of 5	03/03/2018:17:01



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TITLE

Watcher Plus
MainPower

SIZEA3

DWG NOYC.SH.S00020.e1

REVe1

DRAWN BYSimon

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06/03/2018:14:57

D

C

B

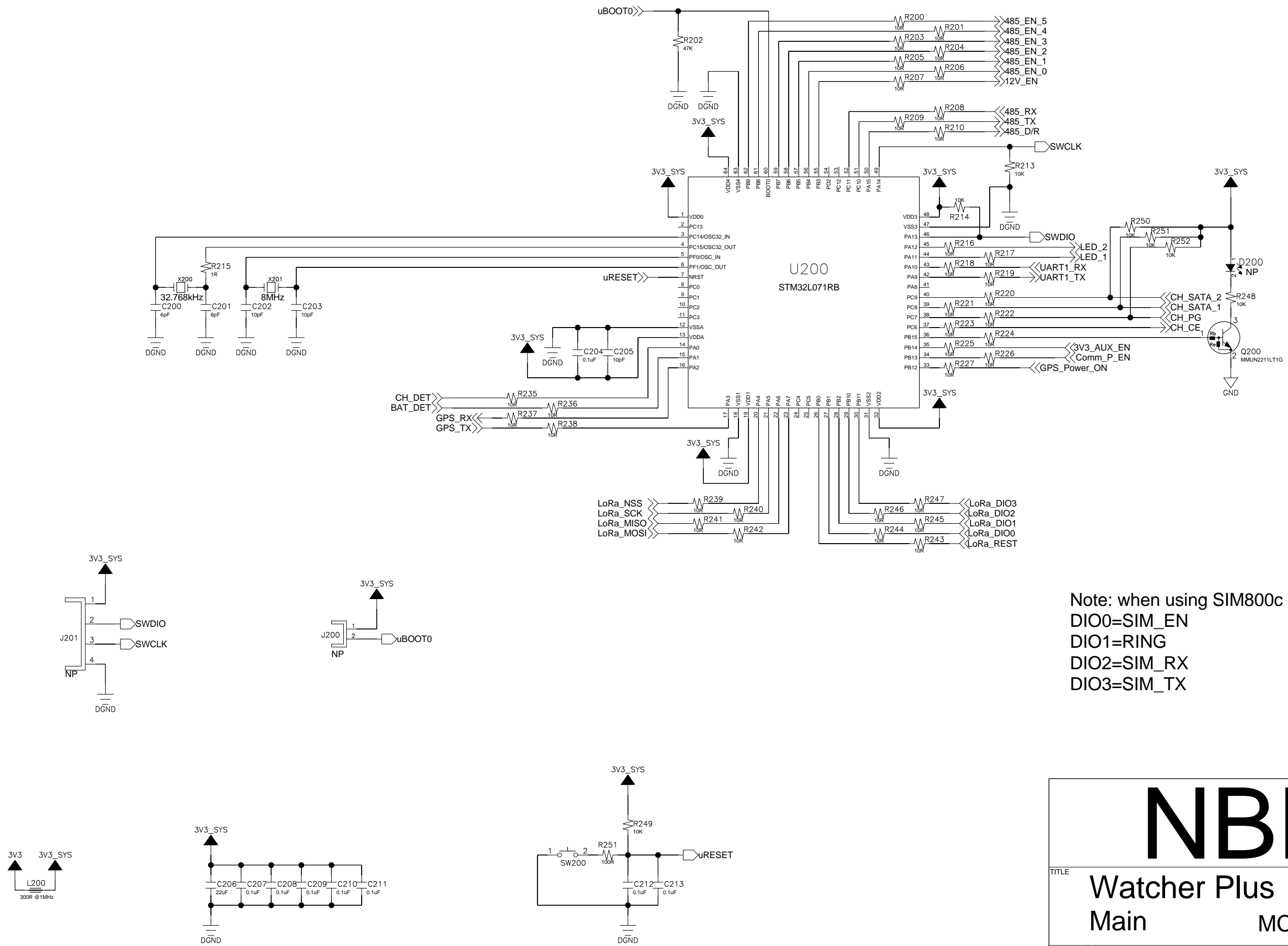
A

D

C

B

A



Note: when using SIM800c
DIO0=SIM_EN
DIO1=RING
DIO2=SIM_RX
DIO3=SIM_TX

<h1>NBI.®</h1>		
TITLE <h2>Watcher Plus</h2> <h3>Main MCU</h3>		
SIZE A3	DWG NO YC.SH.S00020.e1	REV e1
DRAWN BY Simon		SHEET 3 of 5
06/03/2018:17:15		

D

C

B

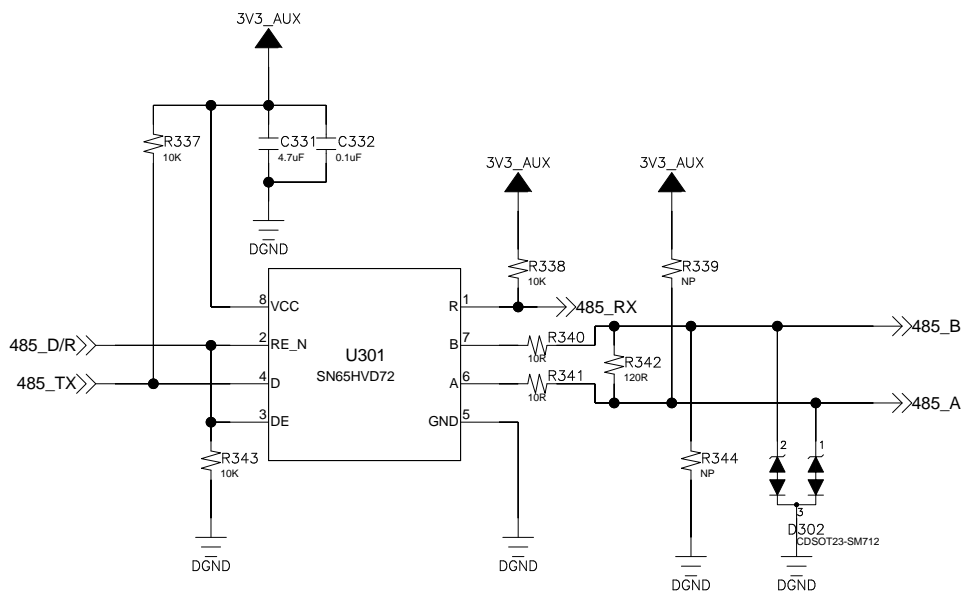
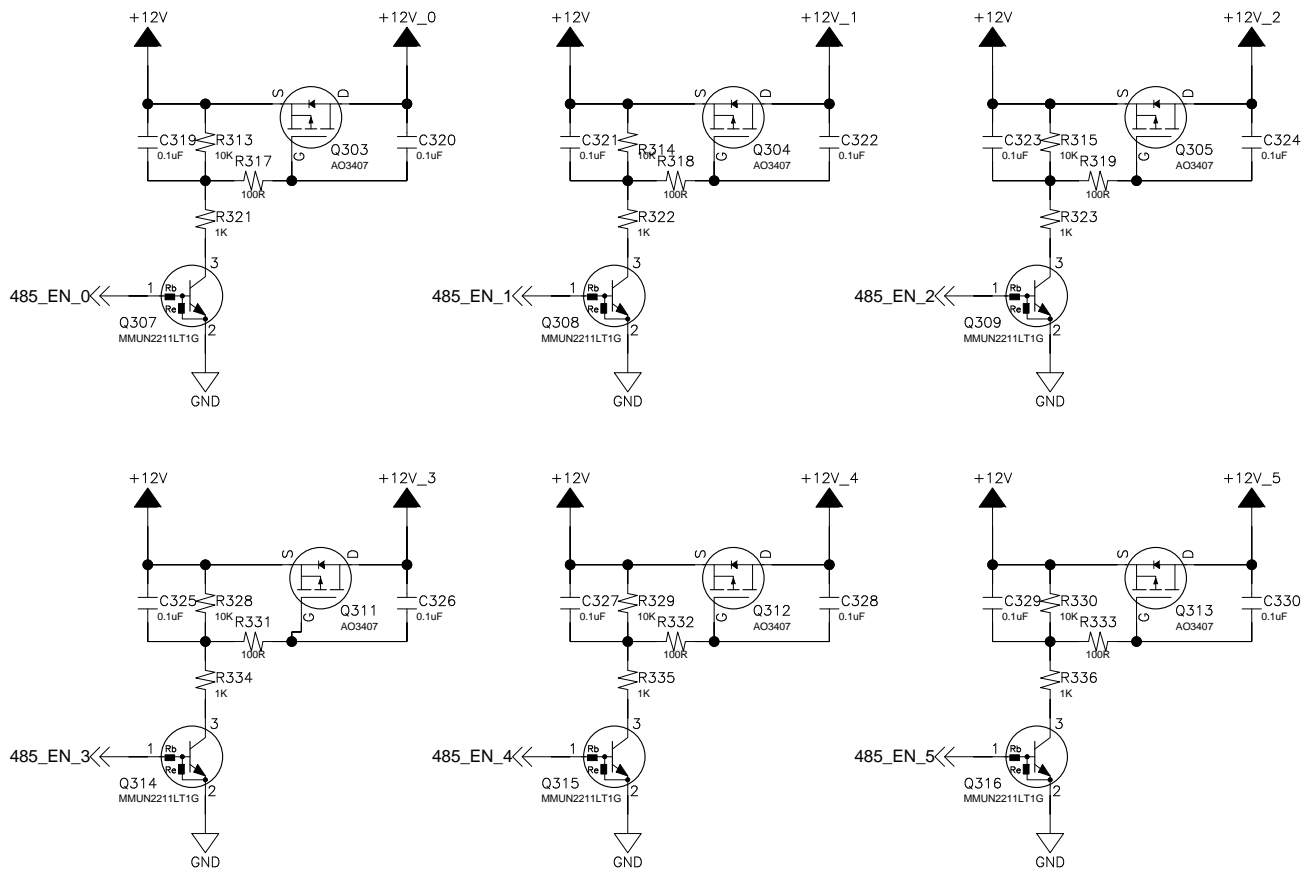
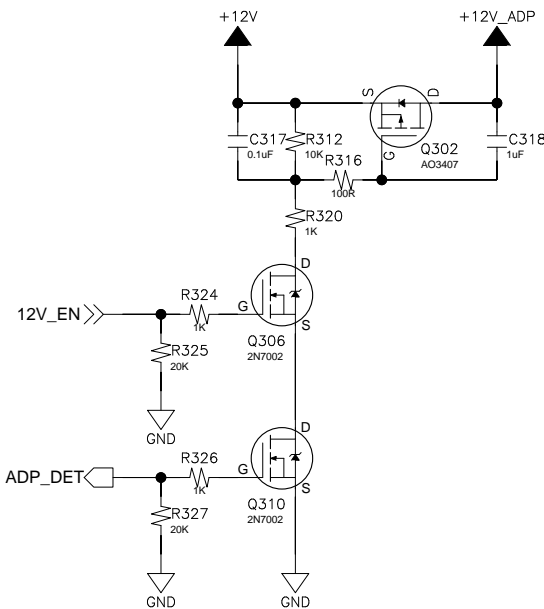
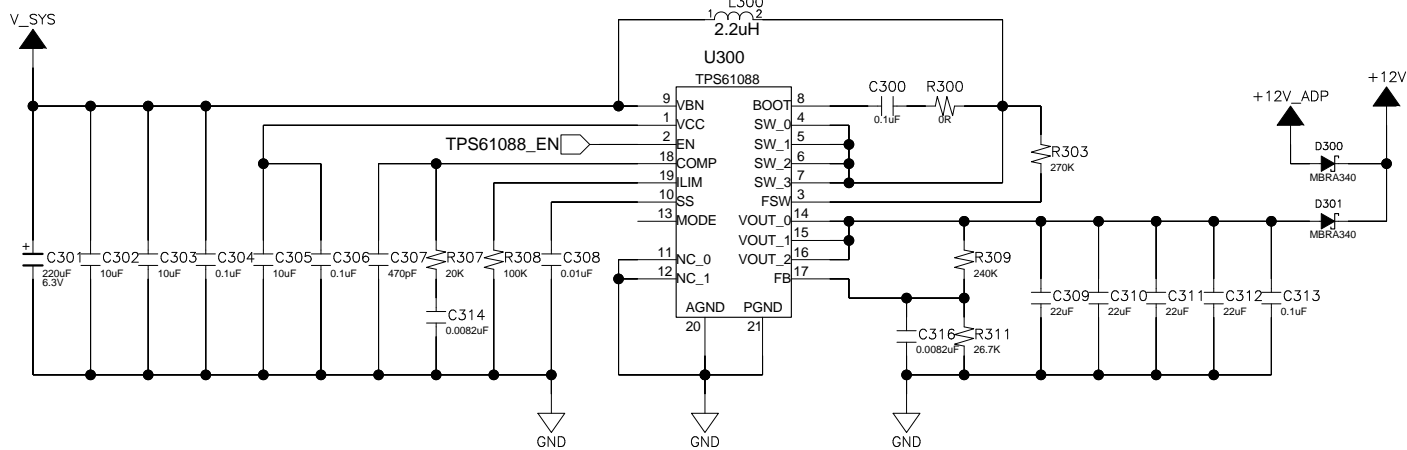
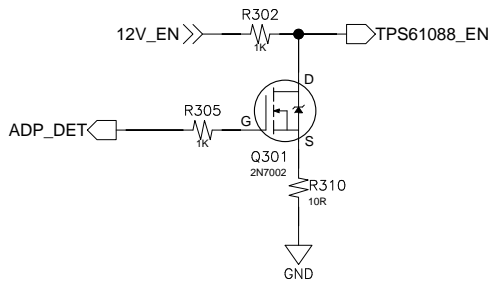
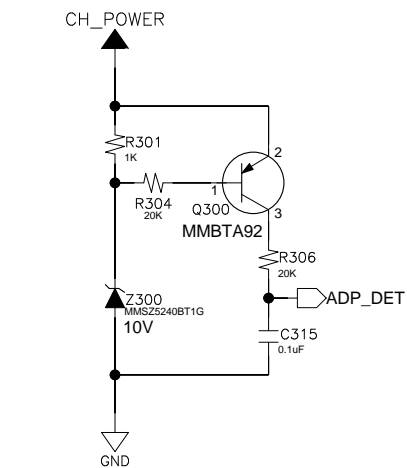
A

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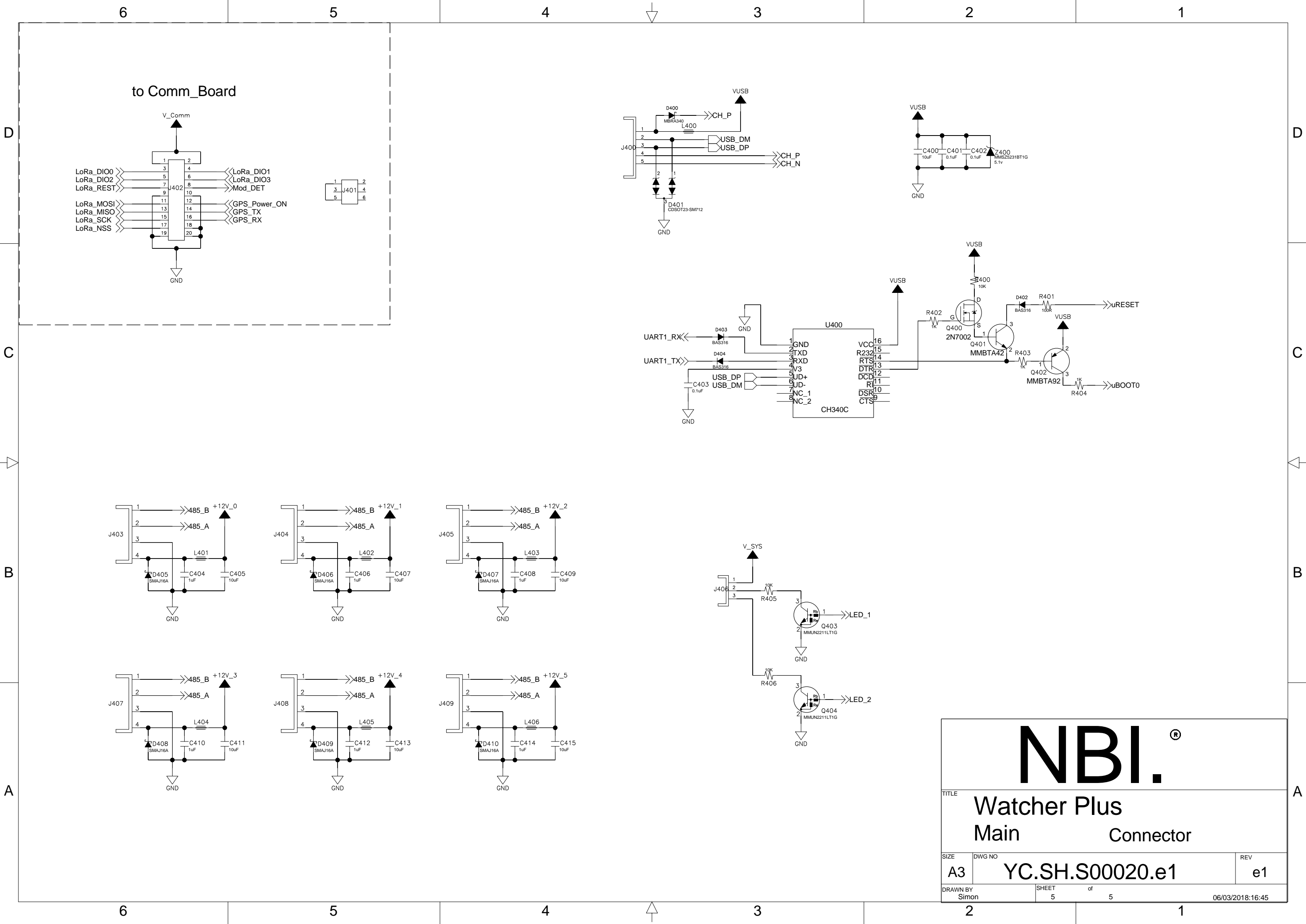
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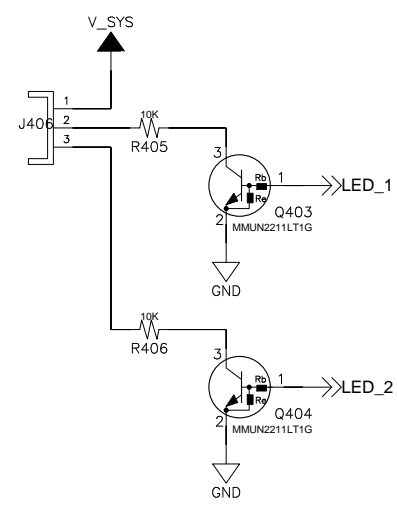
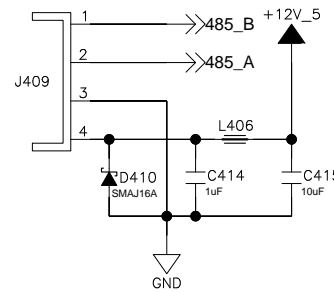
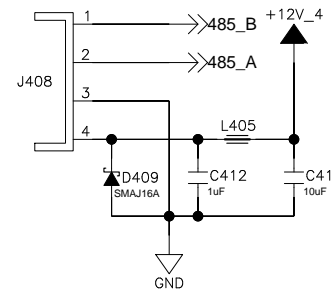
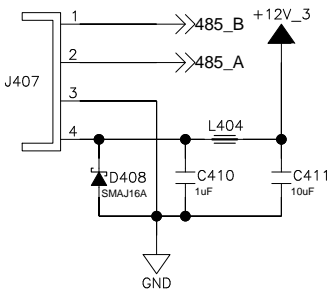
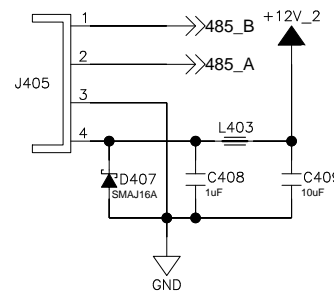
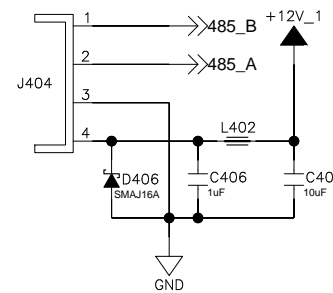
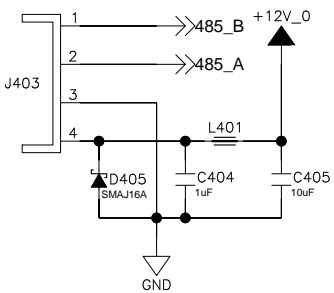
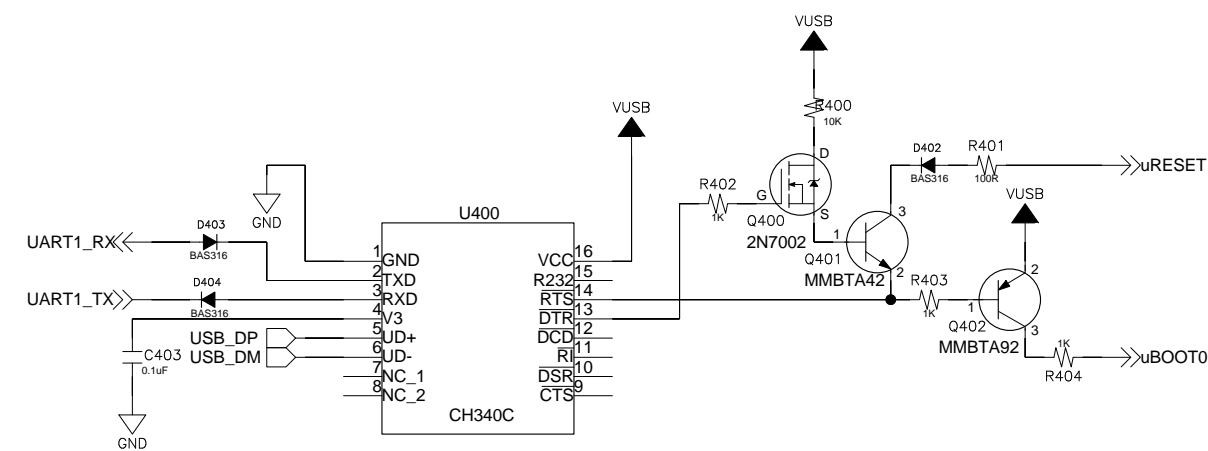
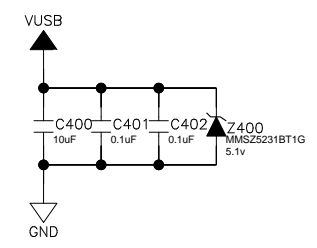
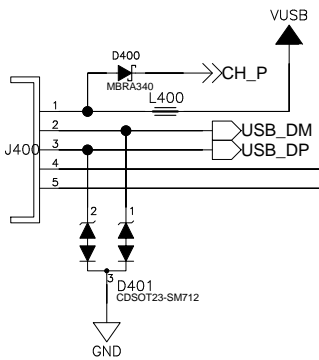
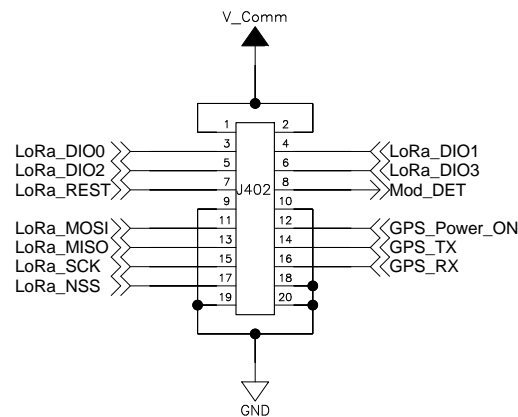
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Watcher Plus
Main RS-485

SIZE	DWG NO	REV
A3	YC.SH.S00020.e1	e1
DRAWN BY Simon		SHEET 4 of 5
03/03/2018:16:44		



to Comm_Board



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TITLE

Watcher Plus

Main Connector

SIZE	DWG NO	REV
A3	YC.SH.S00020.e1	e1
DRAWN BY Simon		SHEET 5 of 5
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