ARK CAN RTK GPS

RTK GPS CAN Node

Revision History
Rev 1.0 - Initial release based on ARK CAN GPS Rev 2
Rev 2.0 - Fix RTK LED Functionality. Add Q5 and R36.
Add F9P UART2 Connector. Add J5, D14, and D15.
Rev 3.0 - Connect Timepulse and TX_Ready from F9P to STM32

ELECTRONICS

Alex R. Klimaj

Page Title: Cover Sheet		Drawn By: Alex Klimaj	
		Checked By: *	
Project Title: ARK CAN RTK GPS		Revision: 3.0	Variant: Production
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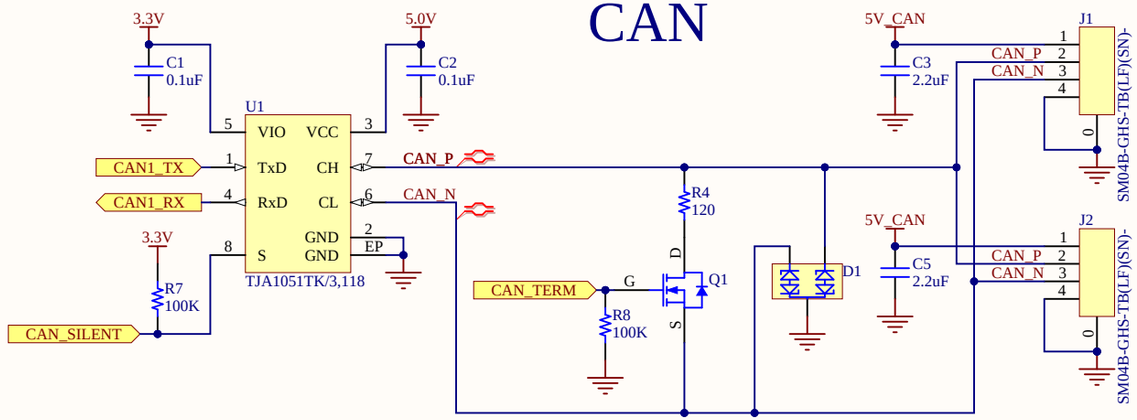
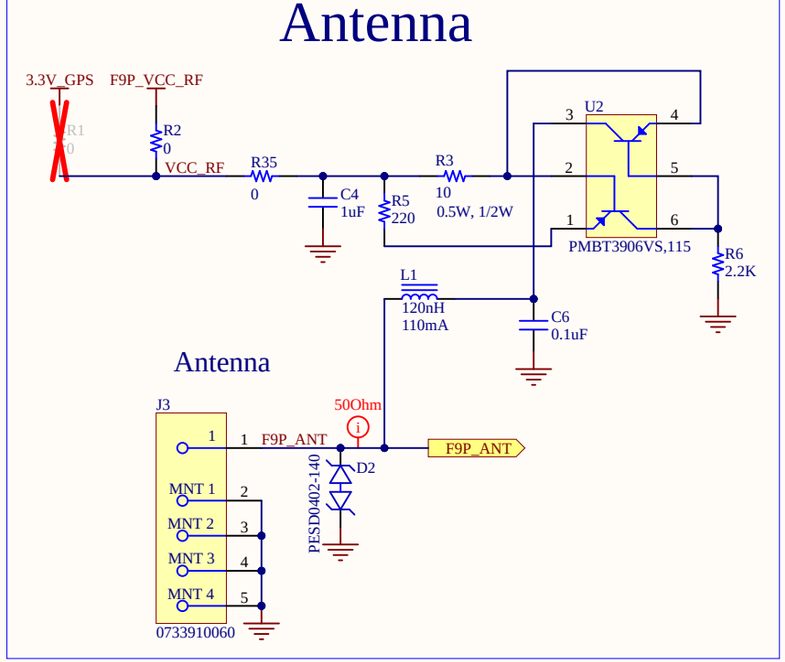
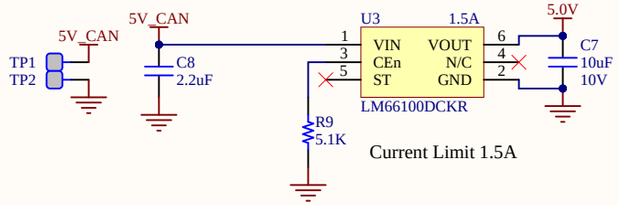
CAN



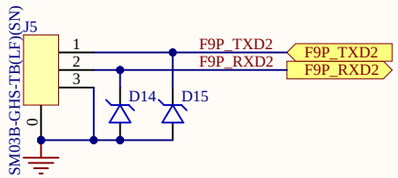
Antenna



Reverse Polarity Protection

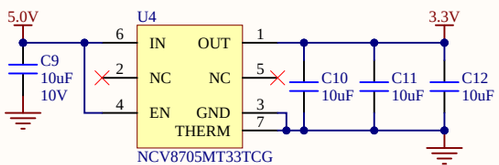


F9P UART2



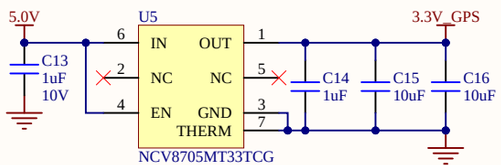
3.3V Regulator

500mA Max



3.3V GPS Regulator

500mA Max



ARK ELECTRONICS

Alex R. Klimaj

Page Title: External Interfaces Power		Drawn By: Alex Klimaj	
		Checked By: *	
Project Title: ARK CAN RTK GPS		Revision: 3.0	Variant: Production
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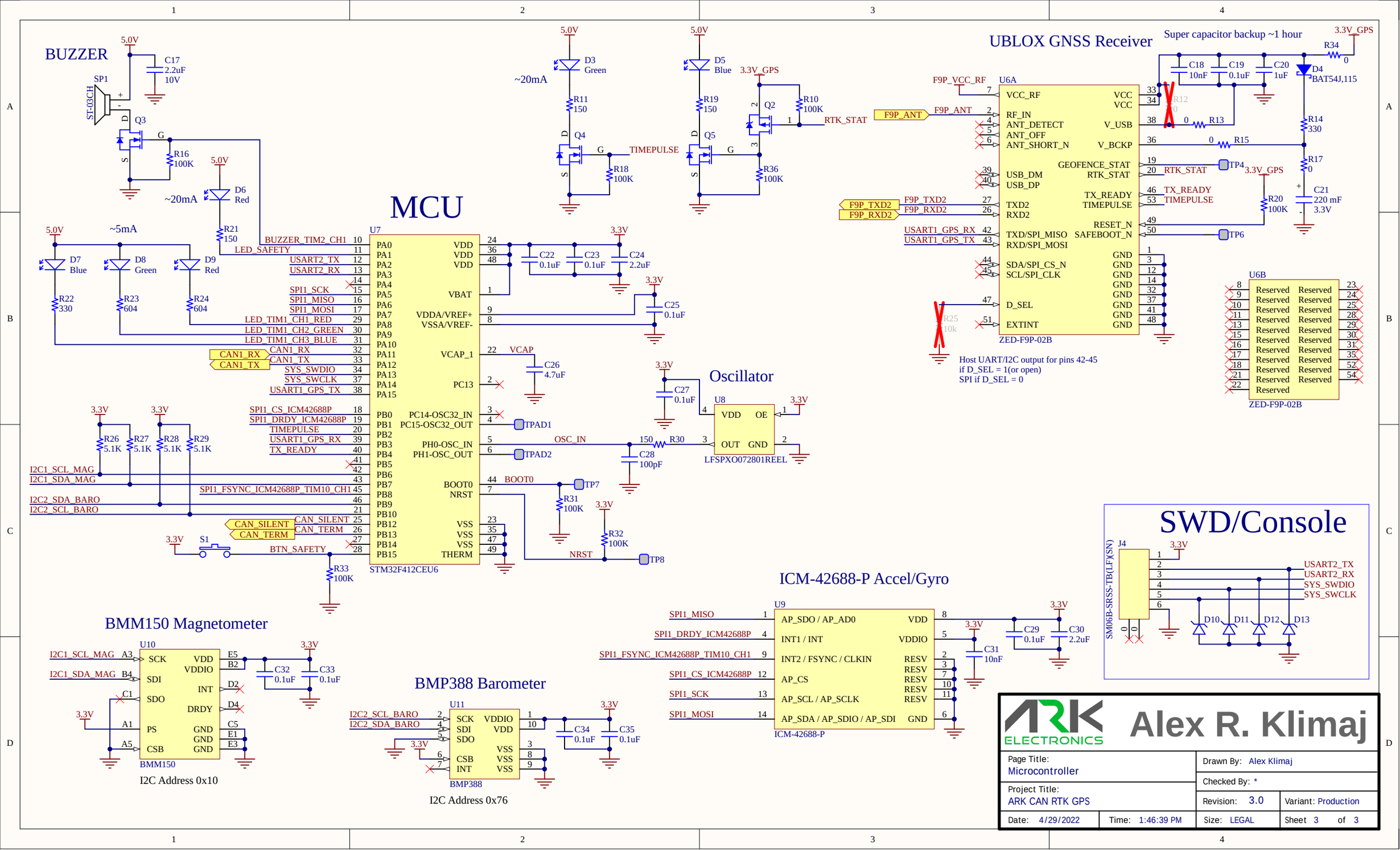
BUZZER
MCU
UBLOX GNSS Receiver
Super capacitor backup ~1 hour
Oscillator
ICM-42688-P Accel/Gyro
SWD/Console
BMM150 Magnetometer
BMP388 Barometer
STM32F412CEU6
ZED-F9P-02B
LFSPXO072801REEL
ICM-42688-P
BMM150
BMP388
I2C Address 0x10
I2C Address 0x76
Host UART/I2C output for pins 42-45
if D_SEL = 1(or open)
SPI if D_SEL = 0
Alex R. Klimaj
ARK ELECTRONICS
Page Title: Microcontroller
Project Title: ARK CAN RTK GPS
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Checked By: *
Revision: 3.0
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