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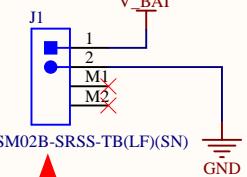
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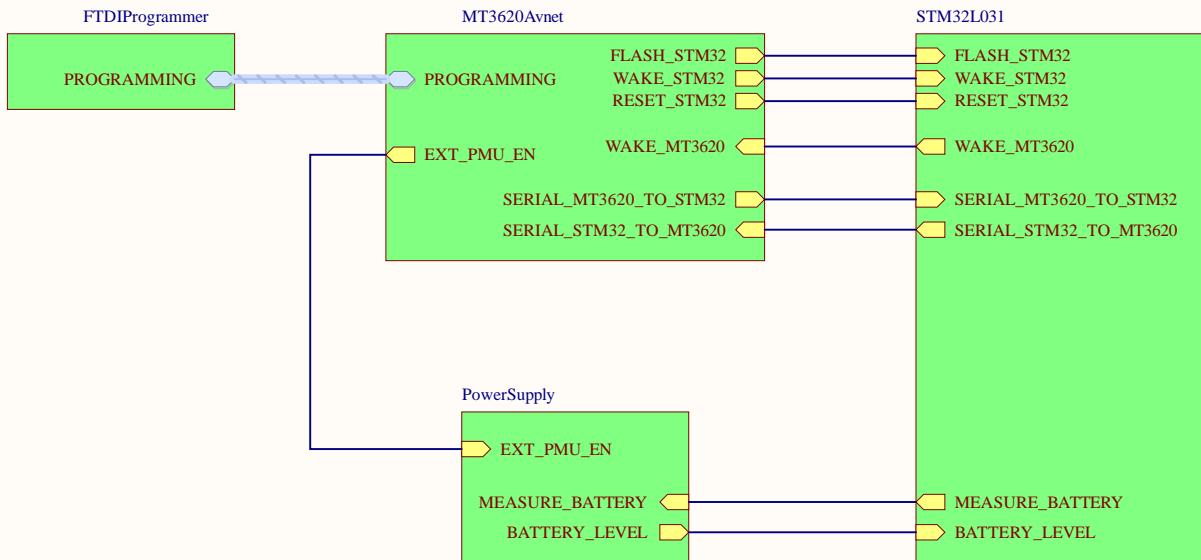
Low Power MCU to Cloud

Battery connector

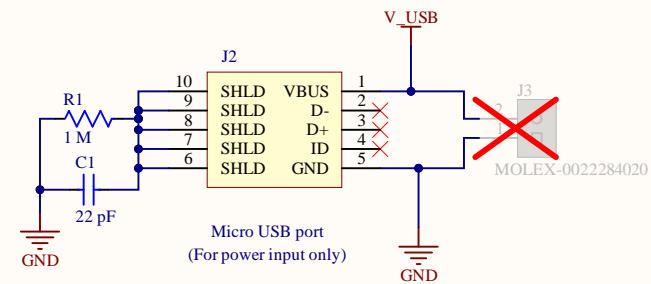


(On-Board)

(Not On-Board)



USB POWER



A

B

C

D

GND pins

Fiducal

Microsoft Azure Sphere

NAME OF THIS PROJECT
P-MT3620EXMSTLP-1-0.PrjPcbTITLE OF THIS SHEET
Low Power MCU to cloud reference

FILE PATH TopLevelBlock.SchDoc

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DRAWN BY Dheeraj R

REVISION 1

1

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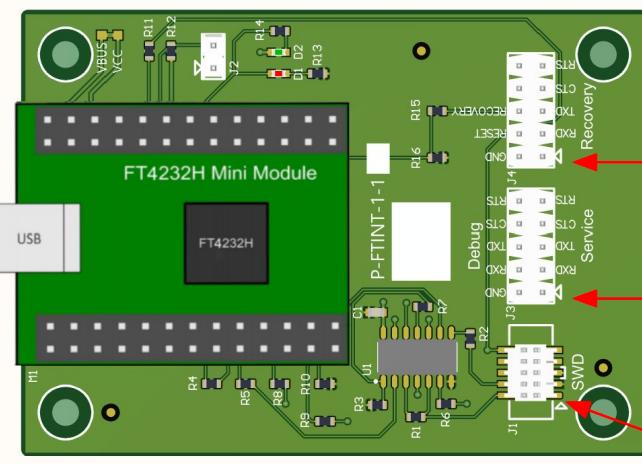
1

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FTINT programmer



<https://github.com/Azure/azure-sphere-hardware-designs/tree/master/P-FTINT-1-1>
(Uses an FT4232H Mini Module)

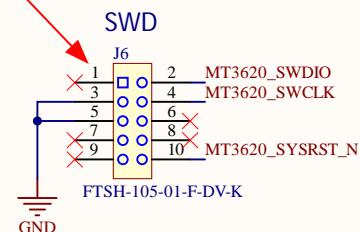
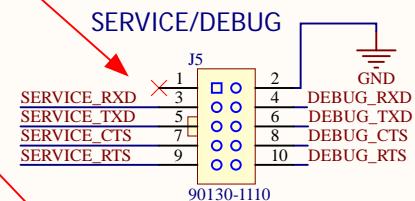
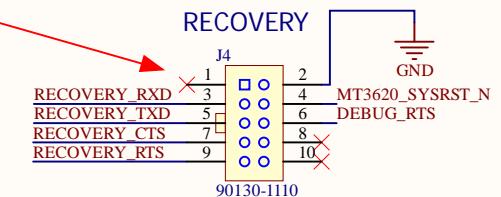
MT3620 programming interface

(Non Board components)

(On-Board components)



MT3620 programming headers



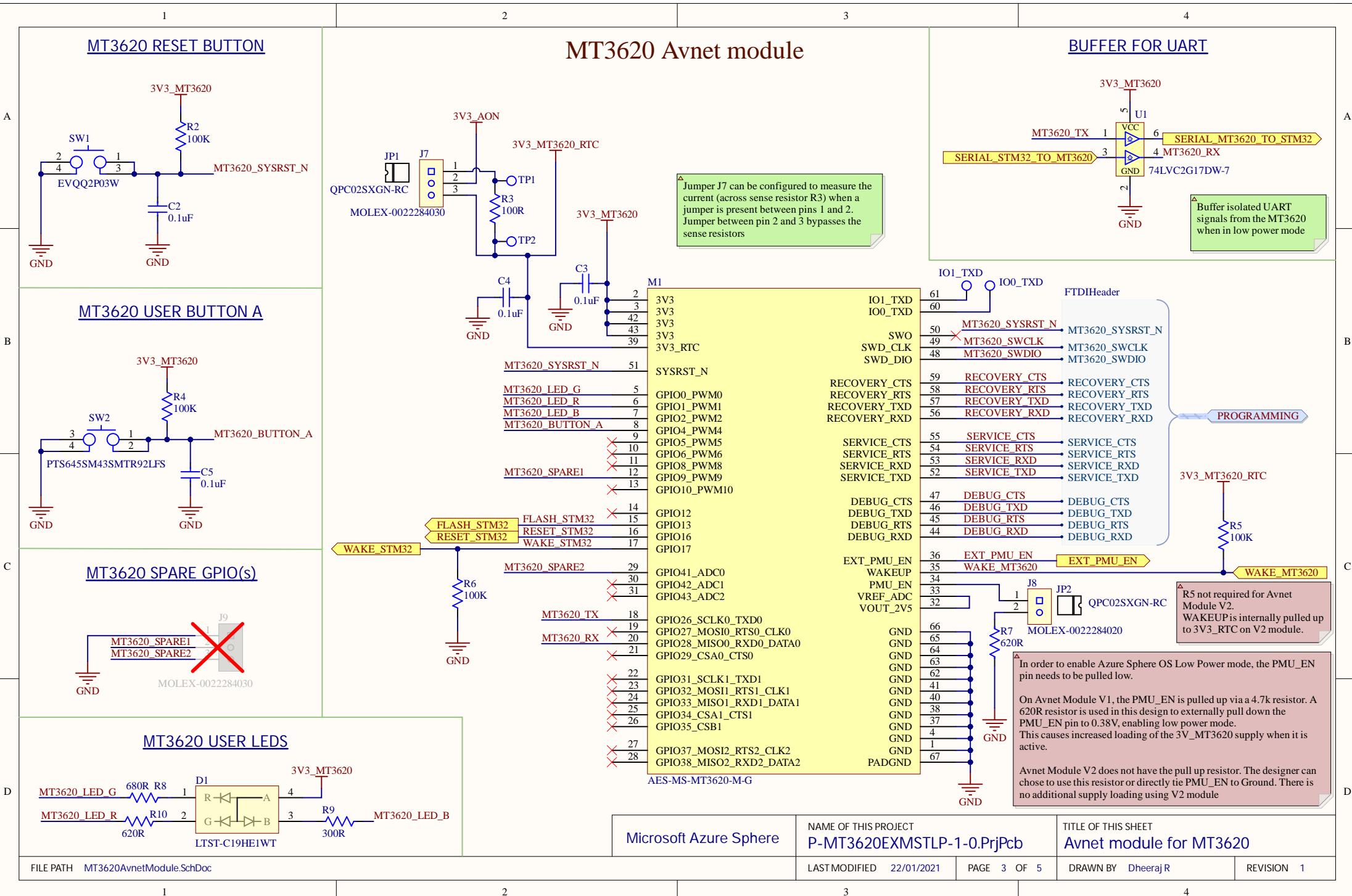
MT3620 programming signals

FTDIHeader	
RECOVERY_RXD	RECOVERY_RXD
RECOVERY_TXD	RECOVERY_TXD
RECOVERY_CTS	RECOVERY_CTS
RECOVERY_RTS	RECOVERY_RTS
MT3620_SYSRST_N	MT3620_SYSRST_N
SERVICE_RXD	SERVICE_RXD
SERVICE_TXD	SERVICE_TXD
SERVICE_CTS	SERVICE_CTS
SERVICE_RTS	SERVICE_RTS
DEBUG_RXD	DEBUG_RXD
DEBUG_TXD	DEBUG_TXD
DEBUG_CTS	DEBUG_CTS
DEBUG_RTS	DEBUG_RTS
MT3620_SWCLK	MT3620_SWCLK
MT3620_SWIO	MT3620_SWIO

PROGRAMMING

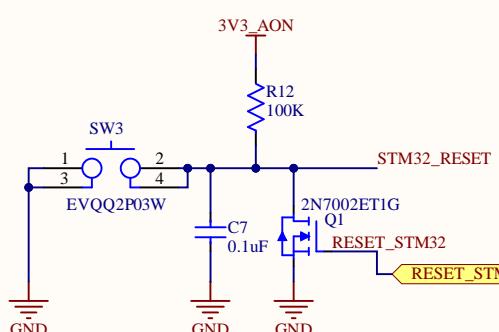
Microsoft Azure Sphere

NAME OF THIS PROJECT
P-MT3620EXMSTLP-1-0.PrjPcbTITLE OF THIS SHEET
FTDI Programming for MT3620

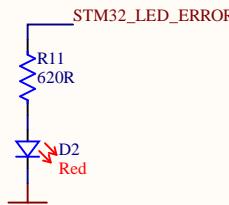


1 2 3 4

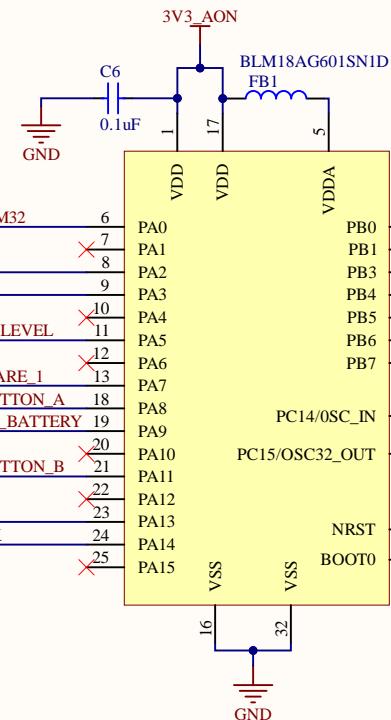
STM32 RESET BUTTON



STM32 ERROR LED



STM32L031 Microcontroller



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NAME OF THIS PROJECT	TITLE OF THIS SHEET
P-MT3620EXMSTLP-1-0.PrjPcb	STM32L031 MCU

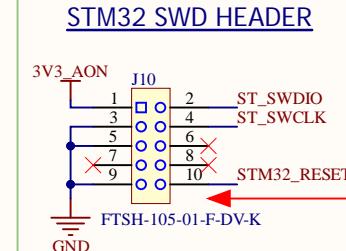
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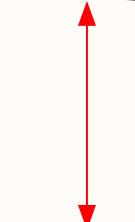
DRAWN BY Dheeraj R REVISION 1

(On-Board components)



(Non Board components)

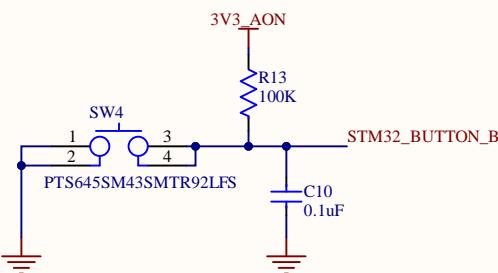
A Olimex ARM-JTAG-20-10



B ST Link

C PC

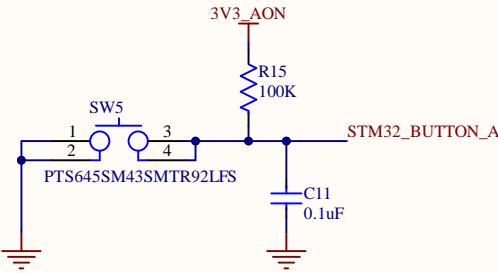
STM32 BUTTON B



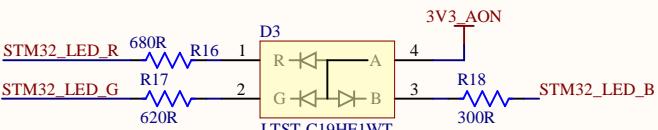
STM32 SPARE GPIO(s)

MOLEX-0022284040

STM32 BUTTON A



STM32 LED(s)

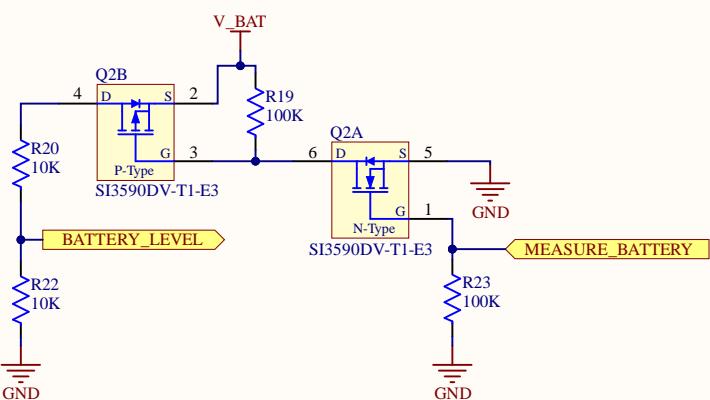
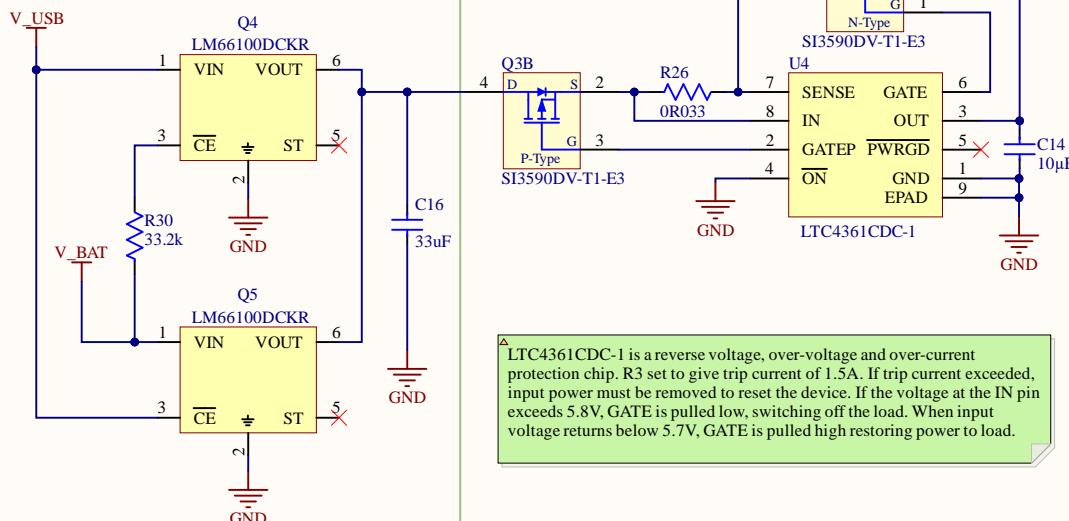


Refer to ST Application Notes:

- 1) AN4467 - Getting started with STM32L0xx hardware development
- 2) AN3155 - USART protocol used in STM32 bootloader
- 3) AN2606 - STM32 microcontroller system memory boot mode

Battery measurement

System Power Supply

Source SelectionNegative-Voltage / Over-Voltage / Over-Current Protection