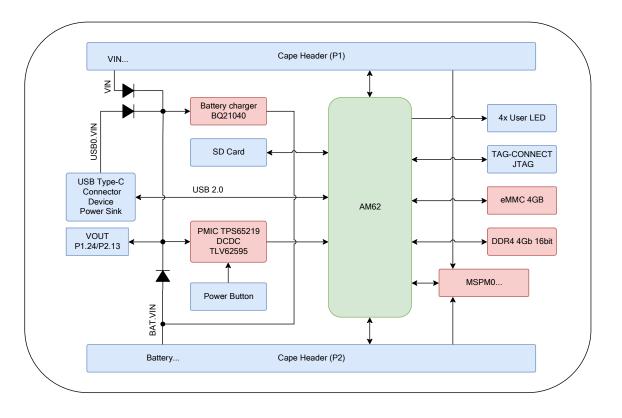
| PAGE L | PAGE LIST | | | | | | |
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| PAGE | PAGE NAME | | | | | | |
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| 010 | 010_SoC WKUP/MCU/System | | | | | | |
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| 015 | 015_SoC JTAG & MISC | | | | | | |
| 016 | 016_BP P1 & P2 | | | | | | |

| REVISI | REVISION HISTORY | | | | |
|--------|--|--|-----|--|--|
| VER # | DATE | DESCRIPTION OF CHANGES | | | |
| 0.1 | 28 Oct. 2022 | First release | qxn | | |
| 0.2 | 1. Remove unused nets 2. Use WKUP_I2C0 for PMIC 3. Add pull-down to VPP 4. Move eEMMC_RSTn to GPIO0_7 5. Add USER button for boot mode seletion 6. Try to add a CSI connector 7. Using processor boall numbers for signal name on P1 and P2 8. Change SoC to AM6232, change eMMC to 4GB, change DDR to 512MB | | | | |
| 0.3 | 2 Nov. 2022 | 1. Remove CSI 2. Add SD card, move LD00 to VDD_SD 3. Power the VPP with VDD_1V8 through a jumper 4. Connect P2.19 to AC20 instead | qxn | | |
| 0.4 | 23 Dec.2022 | 1. Replace the ideal diode with LM73100RPWR 2. Replace EEPROM and ADC with MSPM0 3. Correct the boot settings 4. Connect AD24(MDC) to P2.17 and AB22(MDIO) to P2.20 which is same as pocketbealge. | qxn | | |



Block Diagram



Power tree

Idea Diode

Lidea Diode

Idea Diode

Battery charger BQ21040...

AC_5V/P1.1

USB_5V/P1.7

BAT.TEMP/P2.16

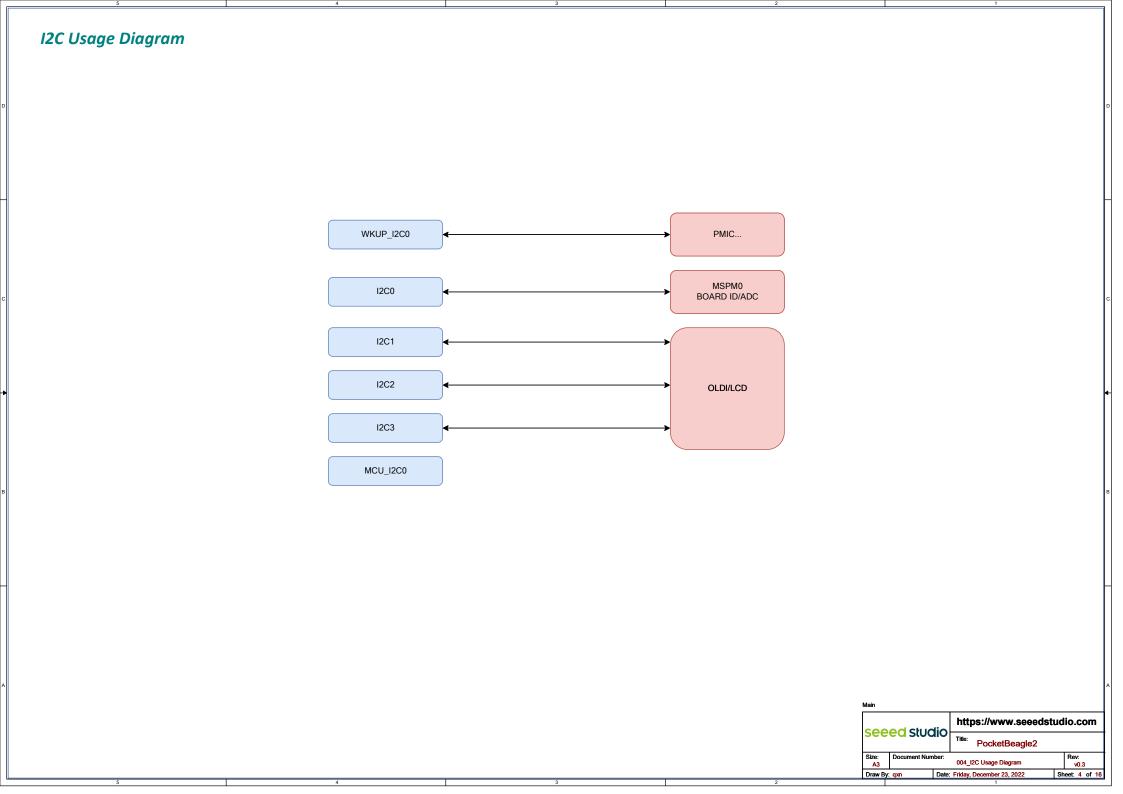
Battery/P2.14

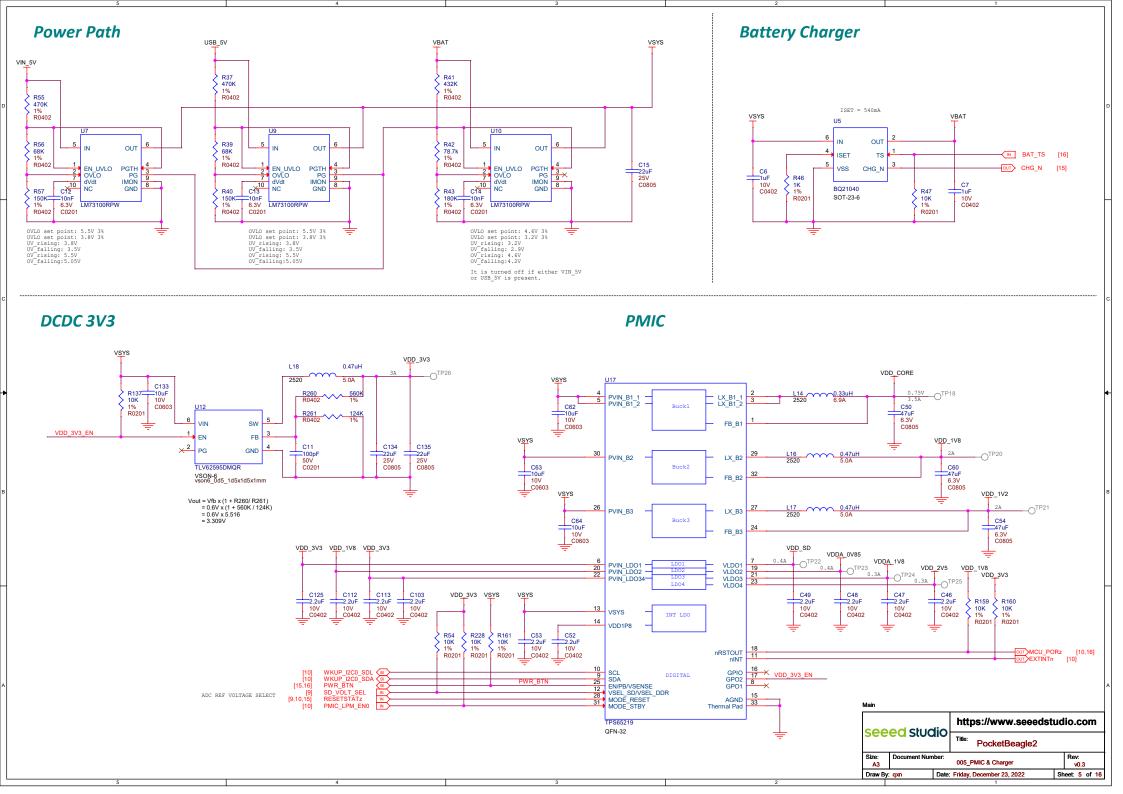
VOUT P1.24/P2.13

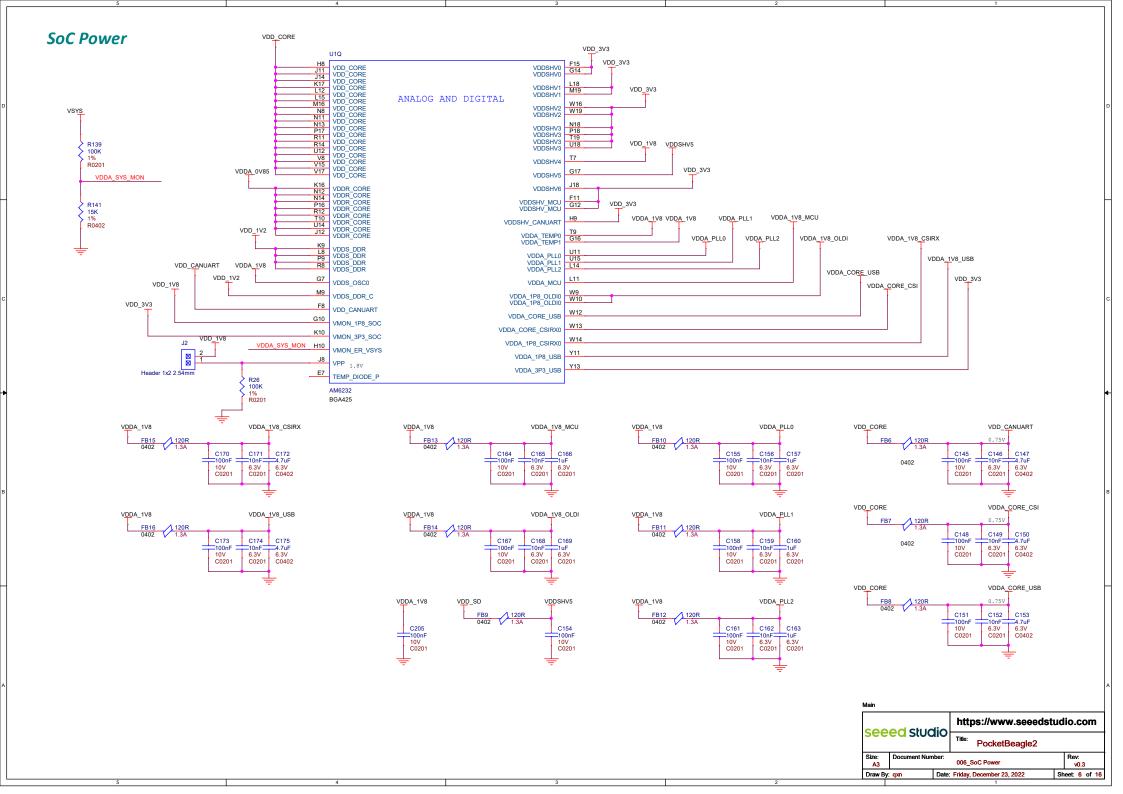
PMIC TPS65219

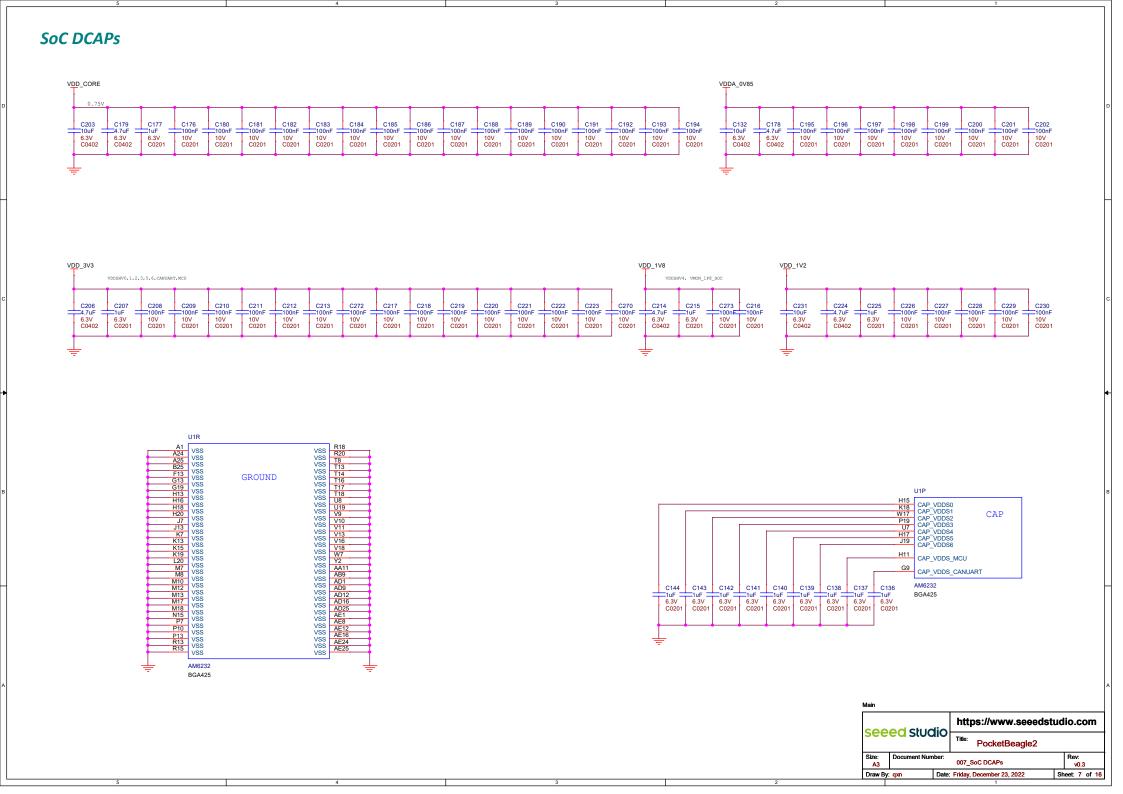
DCDC TLV62595

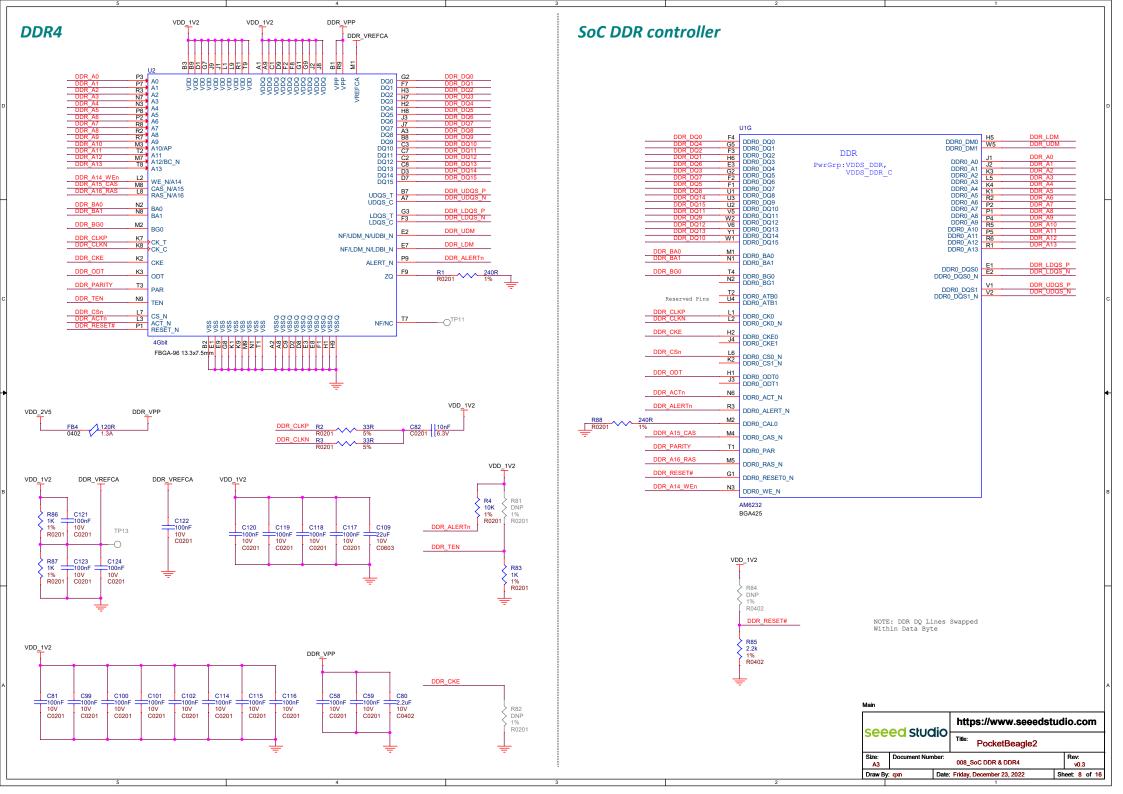


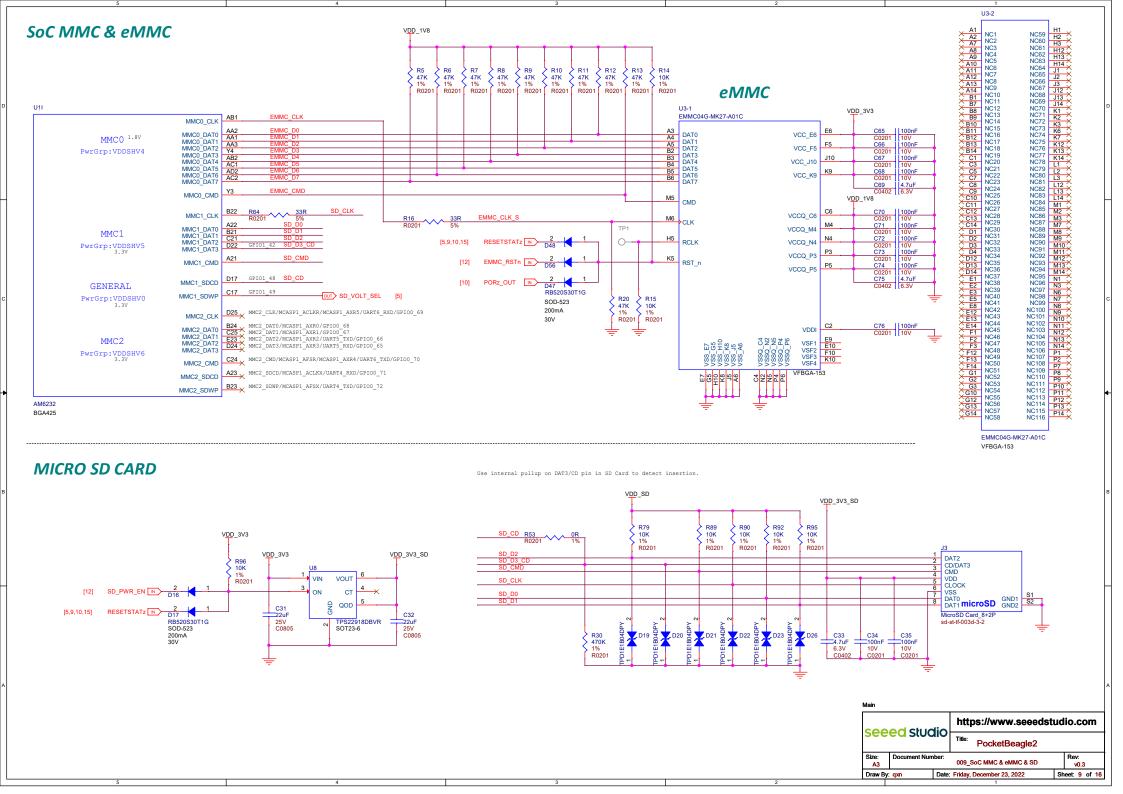


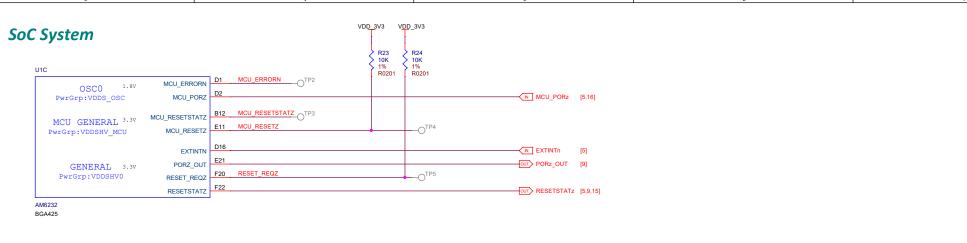




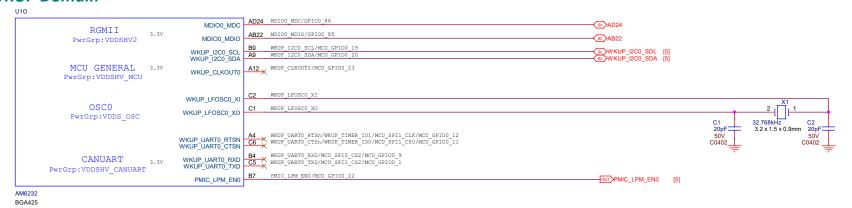






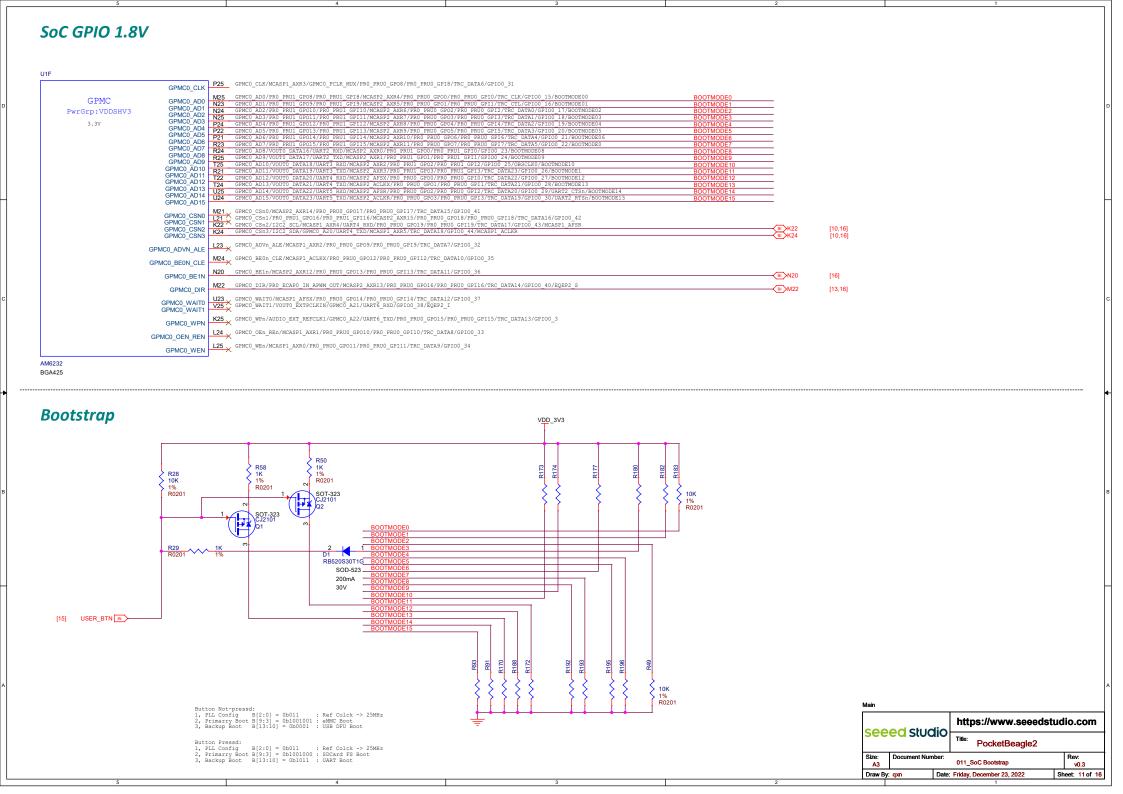


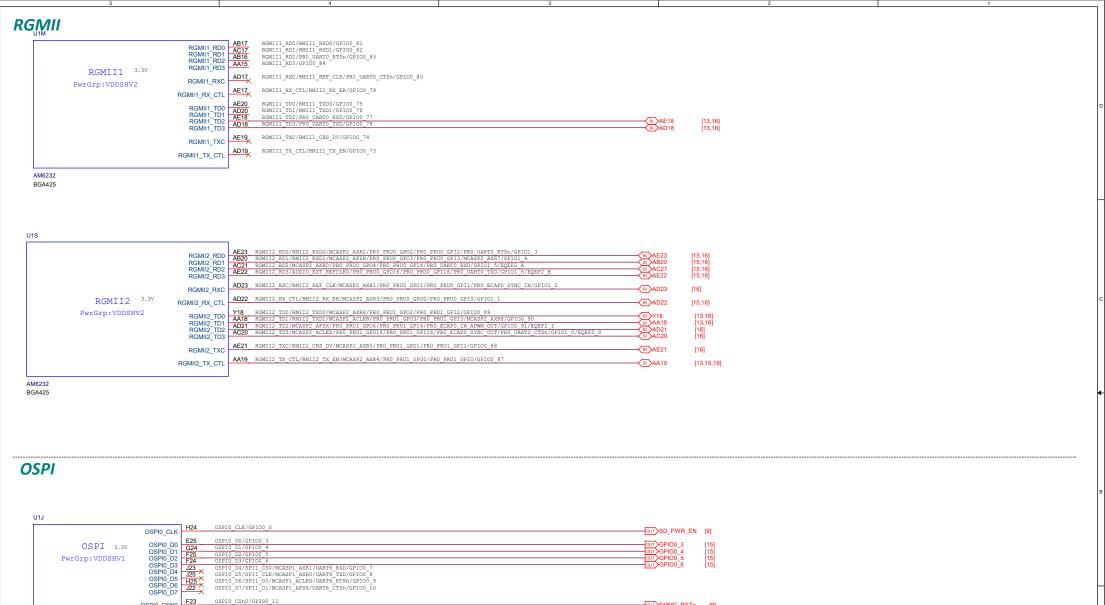
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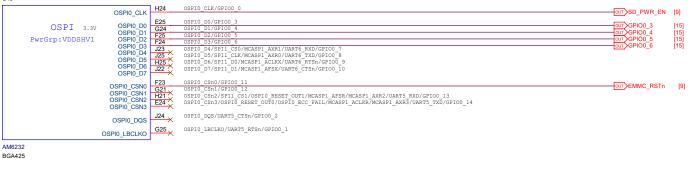


MCU Domain

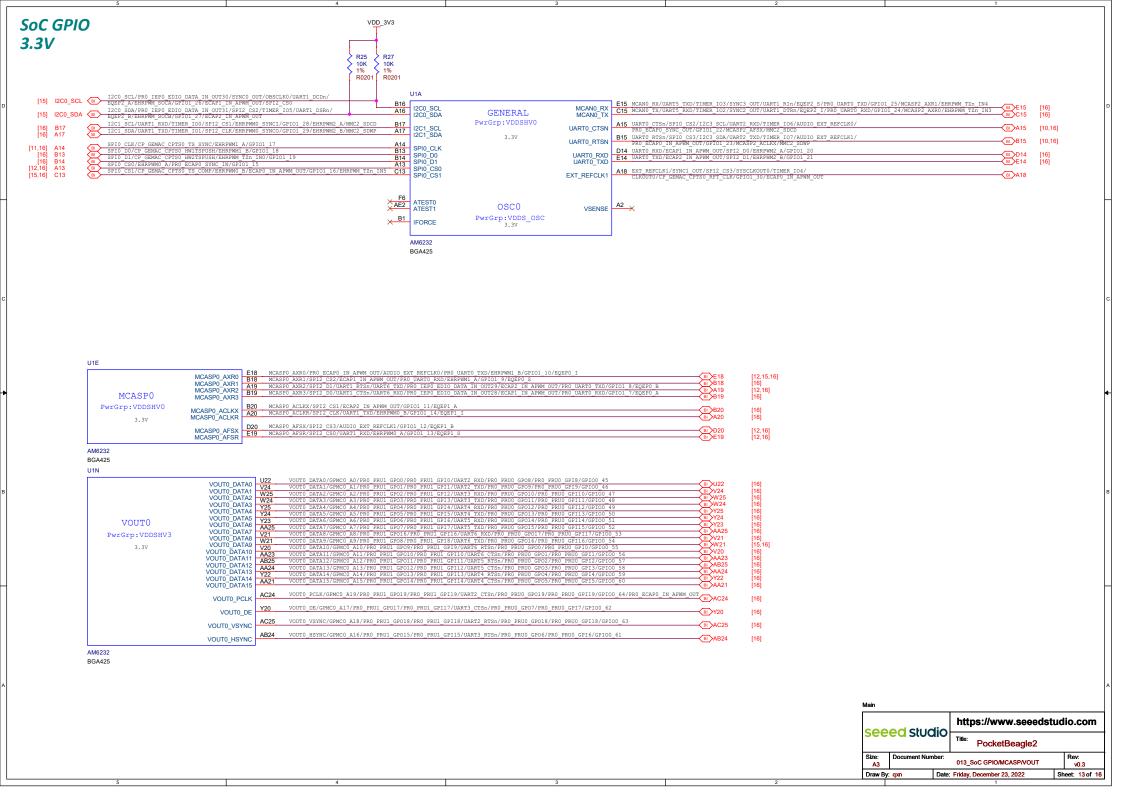


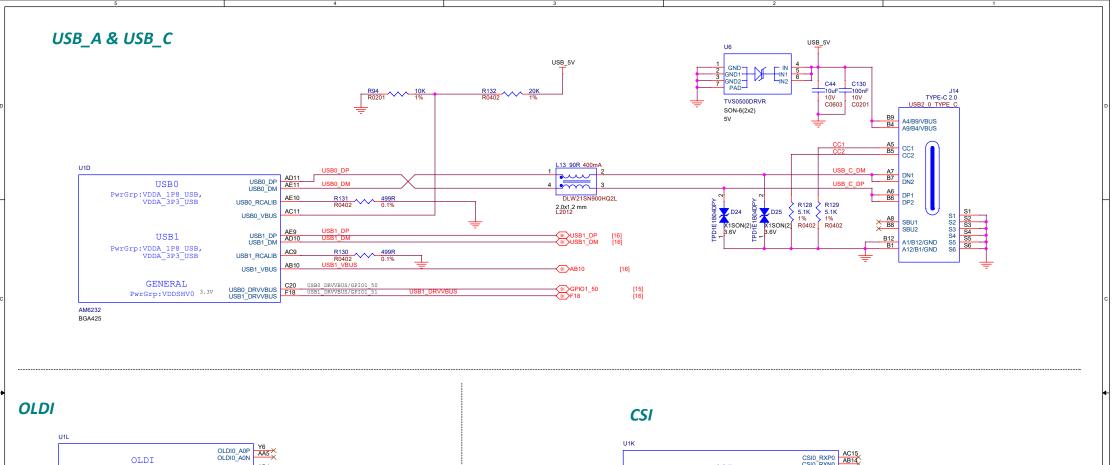


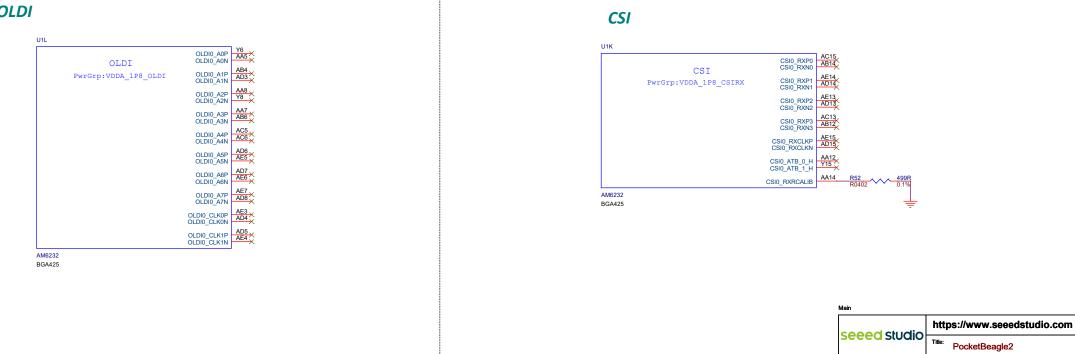




| Seeed Studio Size: Document Number: | | https://www.seeedstudio.com | | | | |
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| | | Title: PocketBeagle2 | | | | |
| | | 012_SoC RGMII/OSPI | | Rev: v0.3 | | |
| Draw By | | Data | Eridov | December 23, 2022 | C. | neet: 12 of 1 |







Size:

Draw By: qxn

Rev: v0.3

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014_SoC USB/OLDI/CSI & USB C
Date: Friday, December 23, 2022

