| PAGE LIST | | |
|-----------|------------------------------|--|
| PAGE | PAGE NAME | |
| 001 | Revision History | |
| 002 | 002_Block Diagram | |
| 003 | 003_Power Tree | |
| 004 | 004_I2C Usage Diagram | |
| 005 | 005_PMIC & Charger | |
| 006 | 006_SoC Power | |
| 007 | 007_SoC DCAPs | |
| 008 | 008_SoC DDR & DDR4 | |
| 009 | 009_SoC MMC & eMMC & SD | |
| 010 | 010_SoC WKUP/MCU/System | |
| 011 | 011_SoC Bootstrap | |
| 012 | 012_SoC RGMII/OSPI | |
| 013 | 013_SoC GPIO/MCASP/VOUT | |
| 014 | 014_SoC USB/OLDI/CSI & USB C | |
| 015 | 015_SoC JTAG & MISC | |
| 016 | 016_BP P1 & P2 | |

| REVISION HISTORY | | | | |
|------------------|--------------|---|--------|--|
| VER # | DATE | DESCRIPTION OF CHANGES | AUTHOR | |
| 0.1 | 28 Oct. 2022 | First release | qxn | |
| 0.2 | 1 Nov. 2022 | 1. Remove unused nets 2. Use WKUP_12C0 for PMIC 3. Add pull-down to VPP 4. Move eEMMC_RSTn to GPIOO_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 | qxn | |
| 0.3 | 2 Nov. 2022 | 1. Remove CSI 2. Add SD card, move LDO0 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 | Replace the ideal diode with LM73100RPWR Replace EEPROM and ADC with MSPM0 Correct the boot settings Connect AD24(MDC) to P2.17 and AB22(MDIO) to P2.20 which is same as pocketbealge. | qxn | |
| 0.5 | 28 Dec.2022 | 1. Add B5 (MCU_UARTO_RXD) to P2_5. 2. Add A5 (MCU_UARTO_TXD) to P2_7. 3. Add A18 (EXT_REFCLK1) to P1_10. 4. Add AD24 (MDIOO_MDC) to P2_1. 5. Add AB22 (MDIOO_MDIO) to P2_3. | qxn | |
| 0.6 | 09 Oct.2022 | Add a buffer on reset Correct typo - WKUP_I2C0_SDL Add decoupling capacitors for LM73100 Change R44 to 100k 0.1% Add pulldown resistors on RESETSTATz and PORZ_OUT Correct the ideal diode control logic Change C17 to 10uF Change the SD card holder to lower profile with insertion detection Move C11 to be in parallel with R260 Add pullup resistors to WKUP_I2C0 Add voltage divider on USB1_VBUS | qxn | |
| 0.7 | 05 Mar.2024 | 1. Add 3-pin JST connector for UART debug 2. Add buffer to debug UART | qxn | |



Block Diagram































