

S5P4418 - PERIPHERALS

MCU Connections:

- MCU_SCL_0, MCU_SDA_0, MCU_SCL_1, MCU_SDA_1, MCU_SCL_2, MCU_SDA_2, PMIC_SCL, PMIC_SDA
- MCU_OTG_PWRRON, UARTTXD0, UARTRXD0, UARTTXD1, UARTRXD1, CAM_PN, CAM_RST, CAM_PD, GPIOC7, GPIOC8, GPIOC28/mSCS1/UARTrR1, UARTTXD2, UARTRXD2, UARTTXD3, UARTRXD3
- MCU_SCL_0, MCU_SDA_0, MCU_SCL_1, MCU_SDA_1, MCU_SCL_2, MCU_SDA_2, PMIC_SCL, PMIC_SDA
- MCU_I2S_SDOUT, MCU_I2S_SDIN, MCU_I2S_BCLK, MCU_I2S_MCLK, MCU_I2S_LRCK
- MCU_SD0_CLK, MCU_SD0_CMD, MCU_SD0_D0, MCU_SD0_D1, MCU_SD0_D2, MCU_SD0_D3
- MCU_SD1_CLK, MCU_SD1_CMD, MCU_SD1_D0, MCU_SD1_D1, MCU_SD1_D2, MCU_SD1_D3

Peripheral Connections:

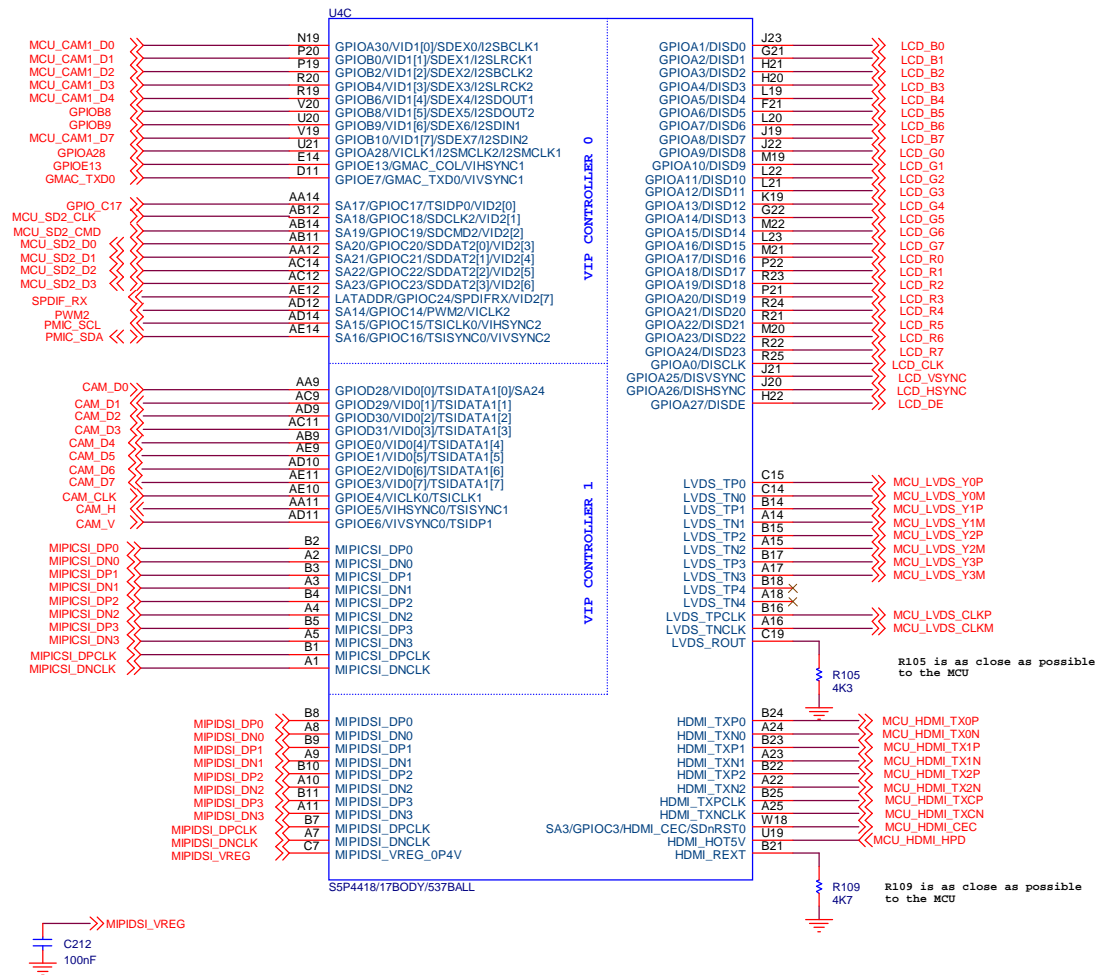
- USB2.0HOST_DP, USB2.0HOST_DM, USB2.0HOST_RKELVIN, USB2.0OTG_DP, USB2.0OTG_DM, USB2.0OTG_RKELVIN, USB2.0OTG_ID, USB2.0OTG_VBUS, USB2.0OTG_USBBUS, USBHSIC_DATA, USBHSIC_STROBE
- SD8/GPIOB24/TSIDATA0[0], SD9/GPIOB25/TSIDATA0[1], SD10/GPIOB26/TSIDATA0[2], SD11/GPIOB27/TSIDATA0[3], SD12/GPIOB28/TSIDATA0[4], SD13/GPIOB29/TSIDATA0[5], SD14/GPIOB30/TSIDATA0[6], SD15/GPIOB31/TSIDATA0[7]
- GPIOE8/GMAC_TXD1, GPIOE9/GMAC_TXD2, GPIOE10/GMAC_TXD3, GPIOE11/GMAC_TXEN, GPIOE12/GMAC_TXER, GPIOE16/GMAC_RXD2, GPIOE17/GMAC_RXD3, GPIOE20/GMAC_MDC, GPIOE21/GMAC_MDIO, GPIOE22/GMAC_RXER, GPIOE23/GMAC_CR5, GPIOE24/GMAC_GTXCLK
- ADC0, ADC1, ADC2, ADC3, ADC4, ADC5, ADC6, ADC7, ADCREF, ADCREFGND
- AliveGPIO0, AliveGPIO1, AliveGPIO2, AliveGPIO3, AliveGPIO4, AliveGPIO5
- GPIOB8/PPM
- GPIO1/PWM0/SA25, GPIO13/PWM1/SDnINT2

Power and Ground Connections:

- VCC3P3_SYS, VCC1P8_SYS, VCC1P8_A2, VCC1P8_A2, VCC1P8_A2
- R110, R111, R112, R113, R123, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191, R192, R193, R194, R195, R196, R197, R198, R199, R200, R201, R202, R203, R204, R205, R206, R207, R208, R209, R210, R211, R212, R213, R214, R215, R216, R217, R218, R219, R220, R221, R222, R223, R224, R225, R226, R227, R228, R229, R230, R231, R232, R233, R234, R235, R236, R237, R238, R239, R240, R241, R242, R243, R244, R245, R246, R247, R248, R249, R250, R251, R252, R253, R254, R255, R256, R257, R258, R259, R260, R261, R262, R263, R264, R265, R266, R267, R268, R269, R270, R271, R272, R273, R274, R275, R276, R277, R278, R279, R280, R281, R282, R283, R284, R285, R286, R287, R288, R289, R290, R291, R292, R293, R294, R295, R296, R297, R298, R299, R300, R301, R302, R303, R304, R305, R306, R307, R308, R309, R310, R311, R312, R313, R314, R315, R316, R317, R318, R319, R320, R321, R322, R323, R324, R325, R326, R327, R328, R329, R330, R331, R332, R333, R334, R335, R336, R337, R338, R339, R340, R341, R342, R343, R344, R345, R346, R347, R348, R349, R350, R351, R352, R353, R354, R355, R356, R357, R358, R359, R360, R361, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R390, R391, R392, R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R527, R528, R529, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R559, R560, R561, R562, R563, R564, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R

S5P4418 - DISPLAY & CAMERA

Reserved Function



S5P4418 - NAND & eMMC

The schematic diagram illustrates the connection of the S5P4418 chip (U4B) to an MCU and an eMMC. The MCU is connected to the S5P4418 via SD0-SD6 pins, with pull-up resistors (R33-R37, R43-R47, R50-R52) and a capacitor (C106). The eMMC is connected to the S5P4418 via DAT0-DAT7, CMD, CLK, A1_INDEX, and RESET pins, with various pull-up resistors (R91, R92, R93, R94) and capacitors (C100-C105). The S5P4418 is also connected to VCC3P3_SYS and VCC3P3_SYS_VDD1. The diagram includes a detailed pin list for the S5P4418 chip.

Pin List for S5P4418:

| Pin | Signal | Pin | Signal |
|------|------------------------|------|--------|
| Y23 | SD0/GPIOB13 | Y25 | nNCS0 |
| W23 | SD1/GPIOB15 | Y24 | nNCS1 |
| W22 | SD2/GPIOB17 | W24 | W24 |
| V23 | SD3/GPIOB19 | W25 | W25 |
| V22 | SD4/GPIOB20 | Y26 | Y26 |
| V21 | SD5/GPIOB21 | AA23 | AA23 |
| W21 | SD6/GPIOB22 | | |
| V21 | SD7/GPIOB23 | | |
| AE23 | SA0/GPIOC0/TSIERR0 | | |
| AA22 | SA1/GPIOC1/TSIERR1 | | |
| | SA2/GPIOC2 | | |
| | nSCS0 | | |
| | nSWE/GPIOE31 | | |
| | nSWE/GPIOE30 | | |
| | RDnWR/GPIOC26/PDMDATA0 | | |
| | nSDQM/GPIOC27/PDMDATA1 | | |
| | nSWAIT/GPIOC25/SPDIFTX | | |
| | nNCS0 | | |
| | nNCS1 | | |
| | CLE0/CLE1/GPIOB12 | | |
| | CLE0/CLE1/GPIOB11 | | |
| | nNFWEO/nNFWOE1/GPIOB18 | | |
| | nNFWEO/nNFWOE1/GPIOB16 | | |
| | RnB0/RnB1/GPIOB14 | | |

eMMC - 16GByte

S5P4418 support 4bit data for eMMC. (MCU_SD2_D[3:0])
MCU_SD2_D[7:4] is not used.

[illegible]

S5P4418 - SYSTEM CONTROL

