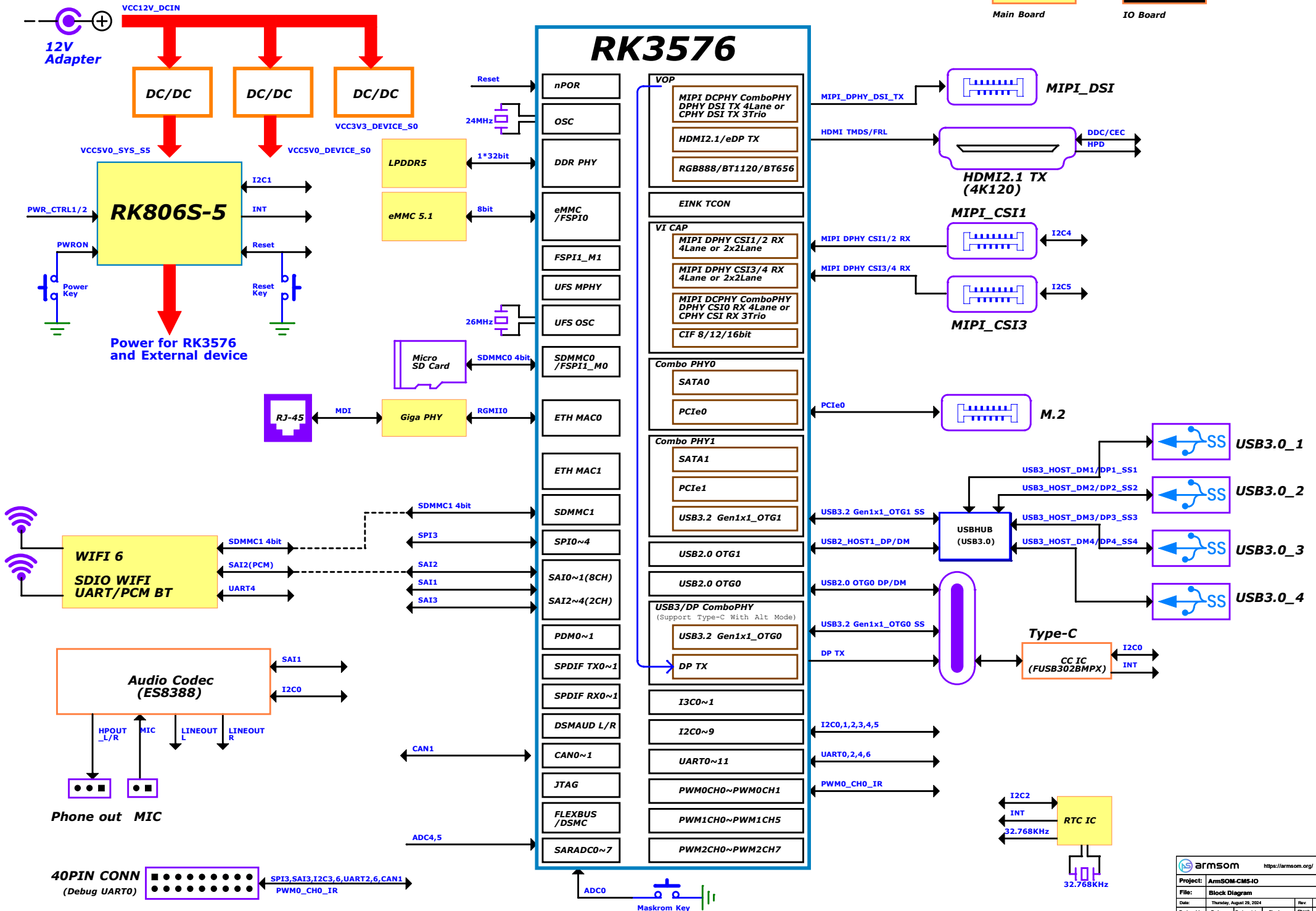
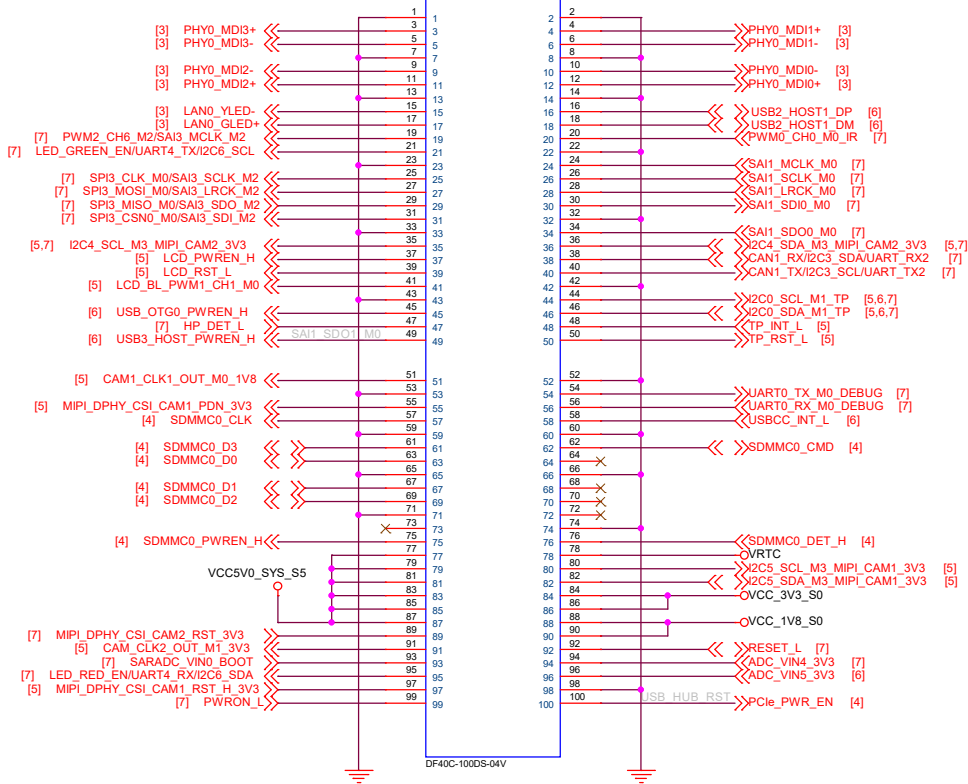


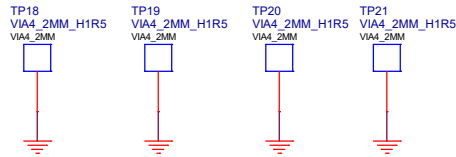
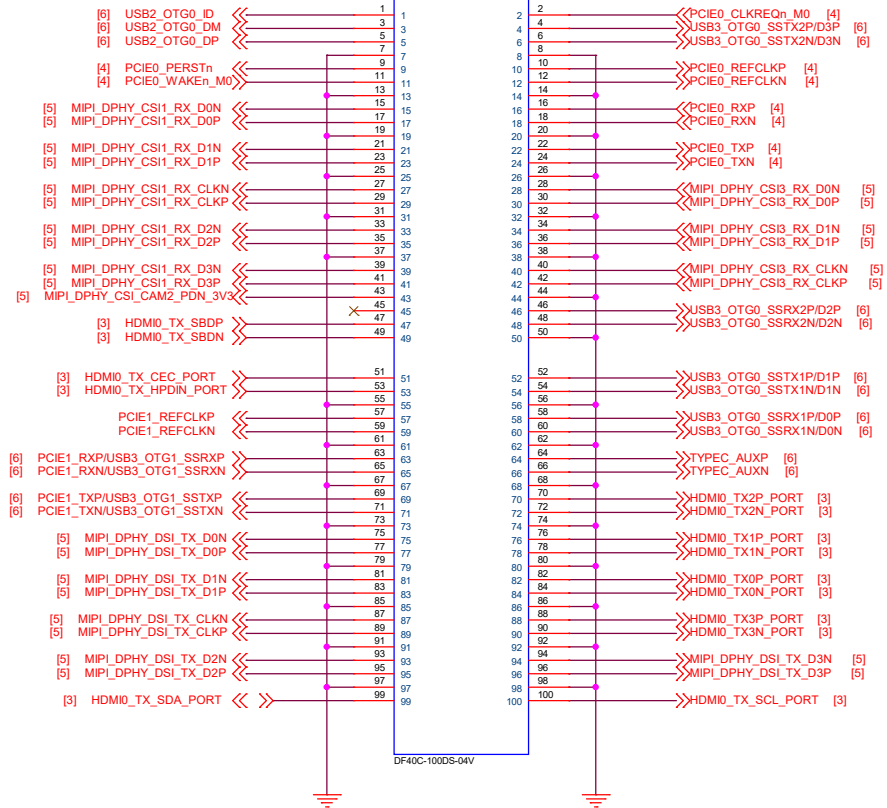
ArmSOM-CM5&CM5-IO Block Diagram



PIN1-PIN100

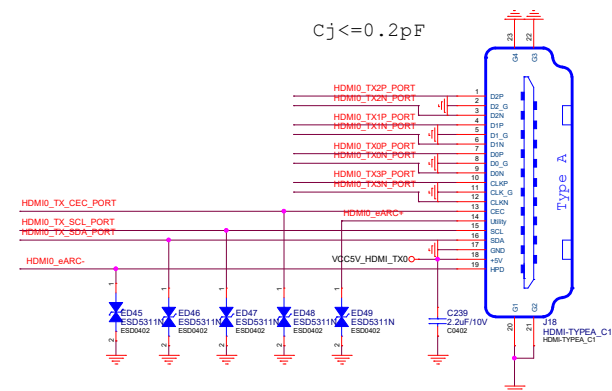
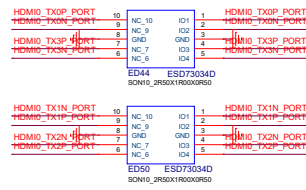
CN1
DF40C-100DS-04V

PIN101-PIN200

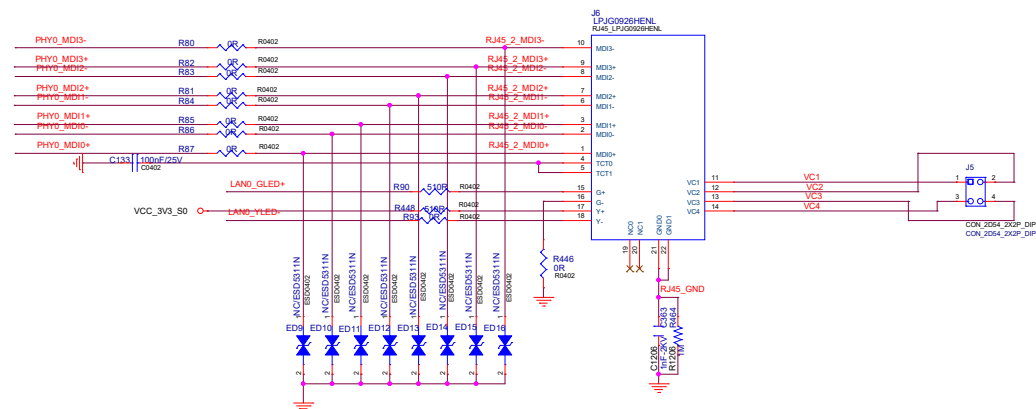
CN2
DF40C-100DS-04V

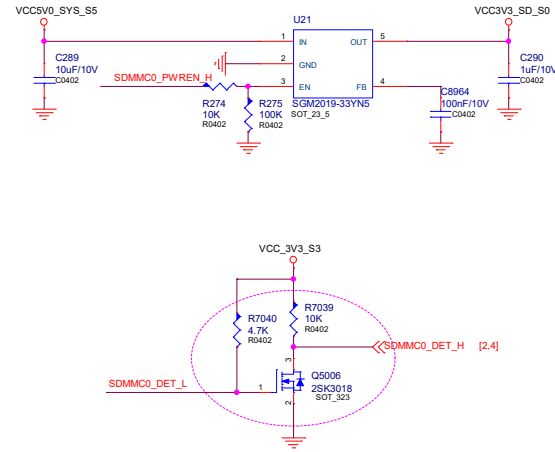
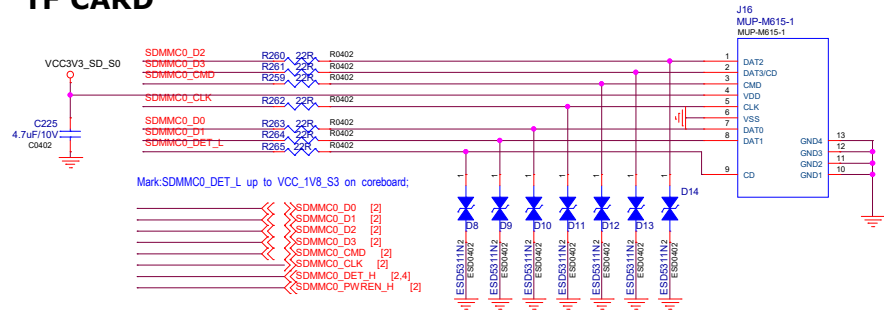
MK1 MARK_1MM
MK2 MARK_1MM
MK3 MARK_1MM
MK4 MARK_1MM
MK5 MARK_1MM
MK6 MARK_1MM

_____>>>	HDMI0_TX_SBDP	[2]
_____>>>	HDMI0_TX_SBDP_PORT	[2]
_____>>>	HDMI0_TX0P_PORT	[2]
_____>>>	HDMI0_TX1P_PORT	[2]
_____>>>	HDMI0_TX1N_PORT	[2]
_____>>>	HDMI0_TX2P_PORT	[2]
_____>>>	HDMI0_TX2N_PORT	[2]
_____>>>	HDMI0_TX3P_PORT	[2]
_____>>>	HDMI0_TX3N_PORT	[2]
_____<<<	HDMI0_TX_SDA_PORT	[2]
_____<<<	HDMI0_TX_SCL_PORT	[2]
_____<<<	HDMI0_TX_CEC_PORT	[2]
_____<<<	HDMI0_TX_HP0IN_PORT	[2]

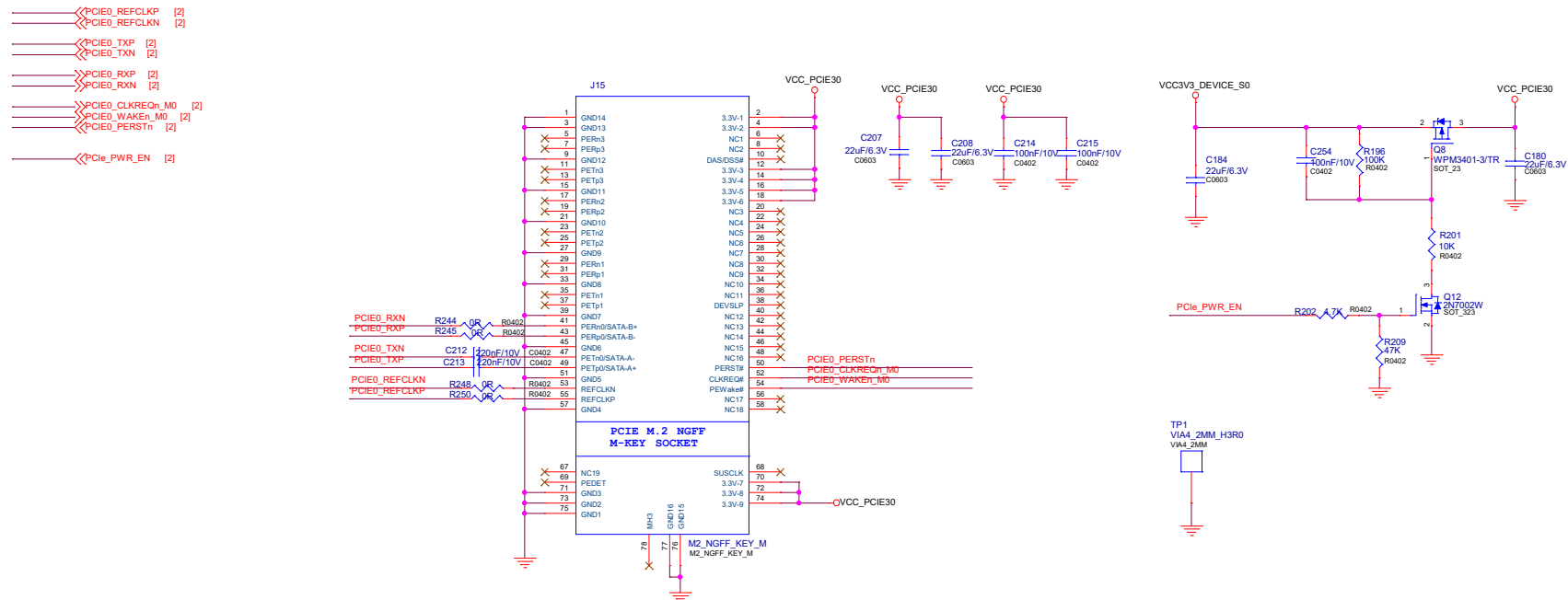


PHY0_MDIO+	[2]
PHY0_MDIO-	[2]
PHY0_MDIO1+	[2]
PHY0_MDIO1-	[2]
PHY0_MDIO2+	[2]
PHY0_MDIO2-	[2]
PHY0_MDIO3+	[2]
PHY0_MDIO3-	[2]
LAN0_YLED-	[2]
LAN0_GLED+	[2]

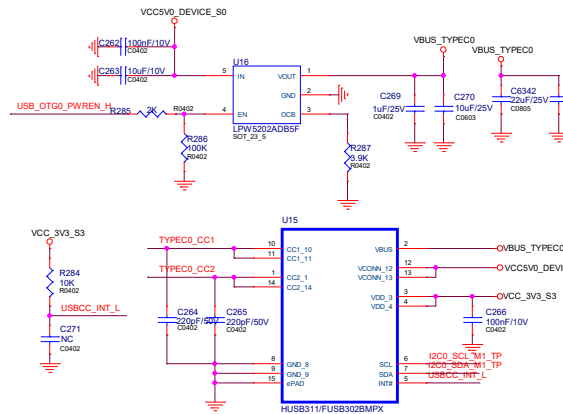
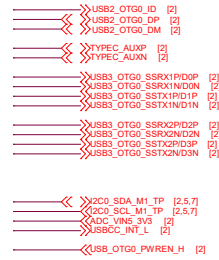


TF CARD

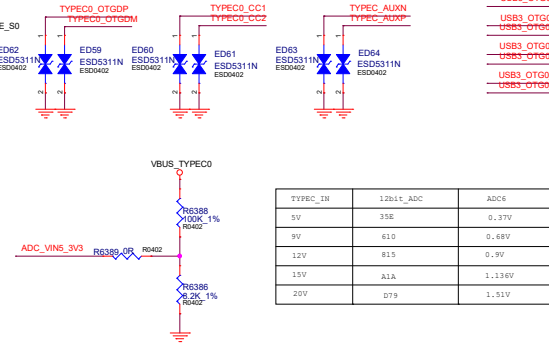
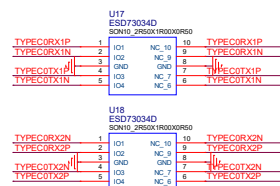
M.2_PCIe



TYPEC

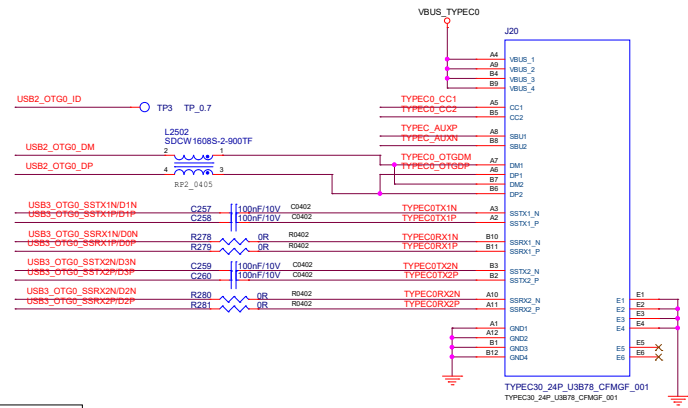


Note:
7bit address=0x22
VBUS of FUSB302BMPX: 4 to 21 TYP = 5V
VDD of FUSB302BMPX: 3 to 5.5 TYP = 3.3V
VCONN of FUSB302BMPX: 3 to 5.5

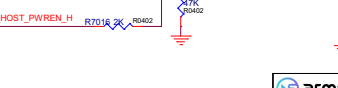
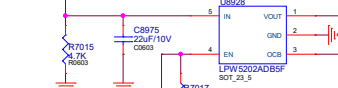
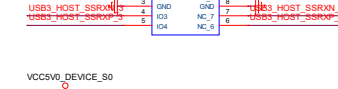
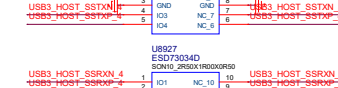
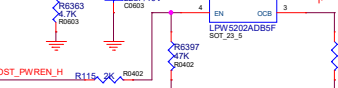
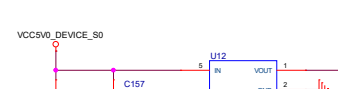
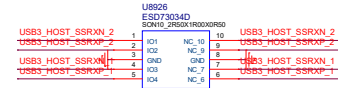
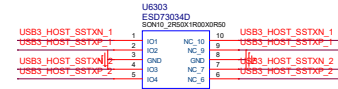
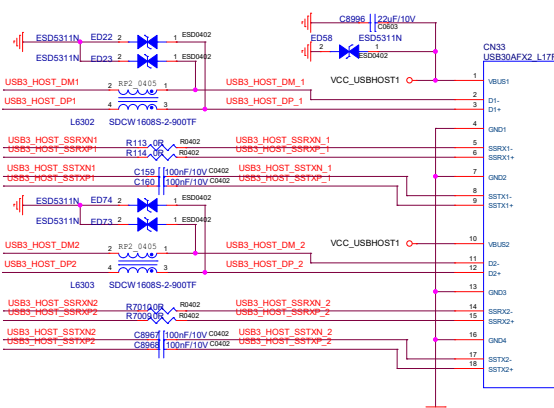
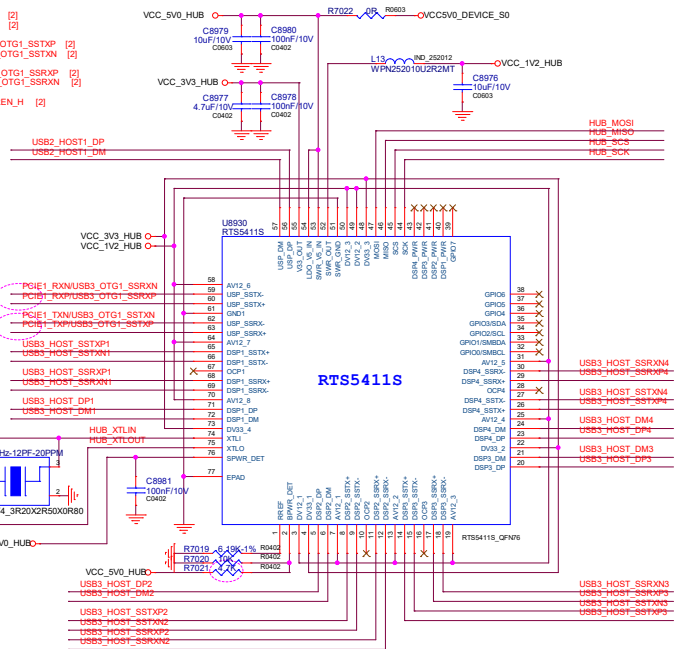


TYPEC_IN	12bit_ADC	ADC6
5V	35E	0.37V
9V	61D	0.68V
12V	81S	0.9V
15V	A1A	1.136V
20V	079	1.51V

Type-C



USBHUB_USB3.0



PWR_KEY

[2] PWRON_L

R357 100R R0402

SW1

01 TS_1088 TS_1088

ED72 ESD0402

RESET_Key

[2] RESET_L

R2 100R R0402

SW2

01 TS_1088 TS_1088

ED2 ESD0402

MASKROM_Key

[2] SARADC_VMO_BOO

R3 100R R0402

SW3

01 TS_1088 TS_1088

ED3 ESD0402

[illegible]

```

    >>>UART0_TX_M0_DEBUG [2]
    >>>UART0_RX_M0_DEBUG [2]
    >>>ADC_VIN4_V3V3 [2]

    >>>SPI3_CLK_M0SAI3_SCLK_M2 [2]
    >>>SPI3_MISO_M0SAI3_LEM2 [2]
    >>>SPI3_MISO_M0SAI3_SDO_M2 [2]
    >>>SPI3_CSNO_M0SAI3_SDI_M2 [2]

    >>>CAN1_RX12C3_SDAUAIUR_RX2 [2]
    >>>CAN1_TX12C3_SDAUAIUR_TX2 [2]
    >>>LED_RED_ENUUART4_RX12C3_SDA [2]
    >>>LED_GREEN_ENUUART4_TX12C3_SCL [2]
    >>>PWMD_Cho_M0_IR [2]

    <<<I2C4_SDA_M3_MIPCI_CAM3_V3V3 [2,5]
    <<<I2C4_SCL_M3_MIPCI_CAM3_V3V3 [2,5]
    <<<MIPCI_DPHY_CSI_CAM2_RST_V3V3 [2,5]

```

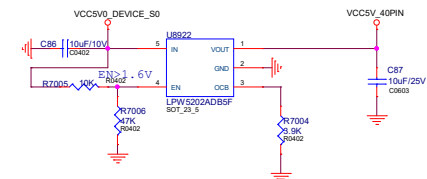
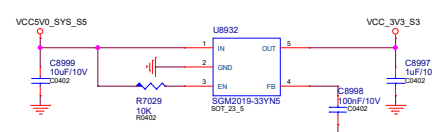
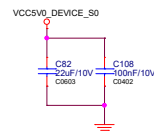
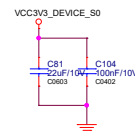
The diagram illustrates the pin connections for the BMT 40-2 module. It is divided into two main sections, each showing a different PCB layout with various components and their connections.

Left Section:

- VCC_3V3_S3:** Connected to a 3.3V supply. Components include R6371 (10K), R6372 (10K), R6373 (1K), R6374 (10K), R6375 (10K), and R6376 (1K).
- UART_TX_M0_DEBUG:** Connected to a 3.3V supply. Components include Q5004 (2SK3018) and SOT_323.
- UART_TX_M0_PORT:** Connected to a 3.3V supply. Components include D5001 (50019WS) and SOT_323.

Right Section:

- VCC3V3_DEVICE_S0:** Connected to a 3.3V supply. Components include 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, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937



Revision History

Version	Date	By	Change Dscription	Approved
V1.0	2024-05-31	SL Chen	First release;	
V1.0	2024-06-27	SL Chen	J25=FPC31PIN_0_5MM_L change to FFC15PIN_1_0MM; R388/R7004/R7005/R7006/C173/C175/C8961/C8963=0201 change to 0402;	
V1.1	2024-08-29	SL Chen	1.Swap J23.2 and J23.3; USBHUB: swap singal OTG1_SSTX and OTG1_SSRX; 2.CSI1_CLK change to 1.8V; CSI3 I2C Voltage change to 3.3V; 3.TF Card_DET change to H;del hdmi circuit;	