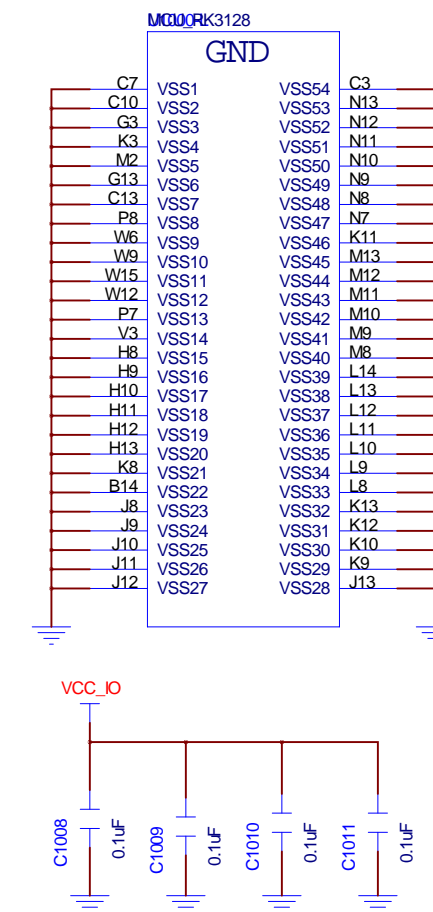
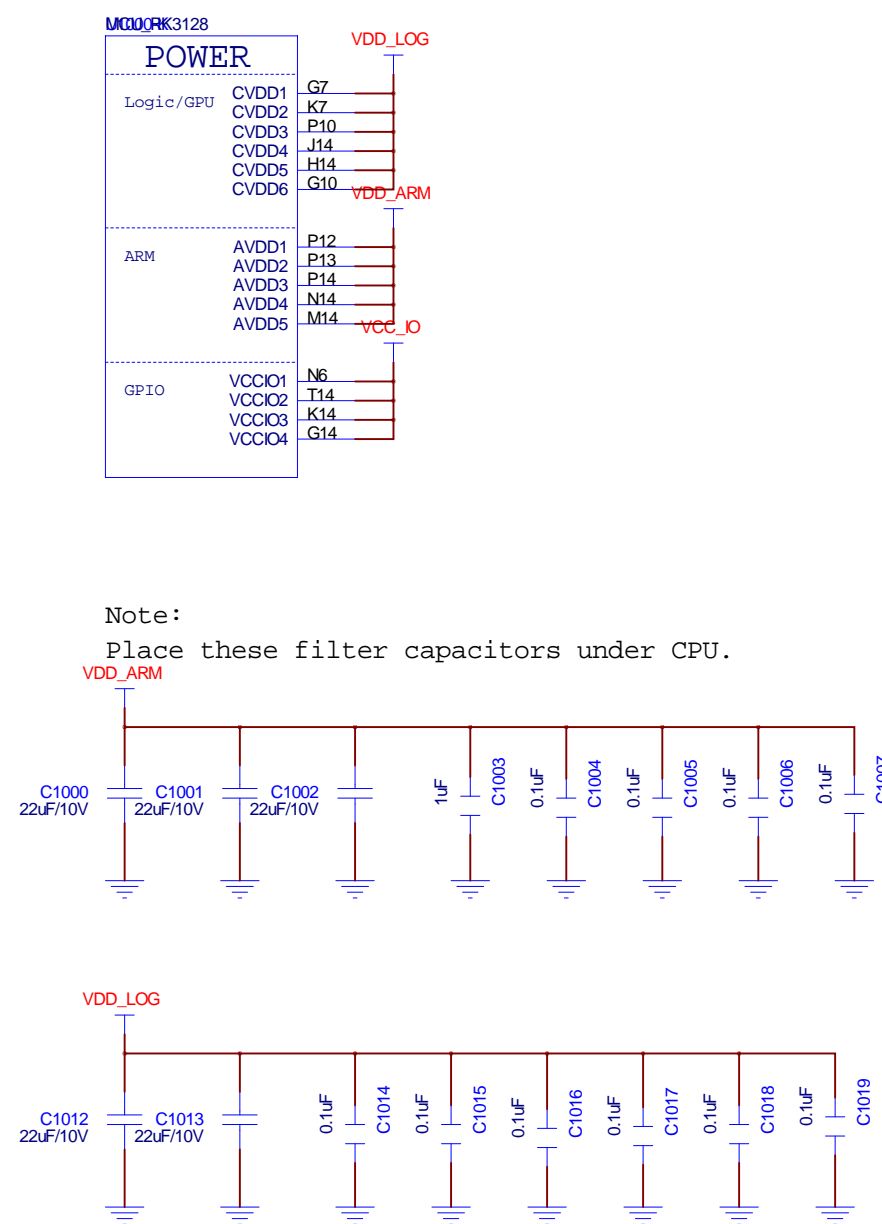
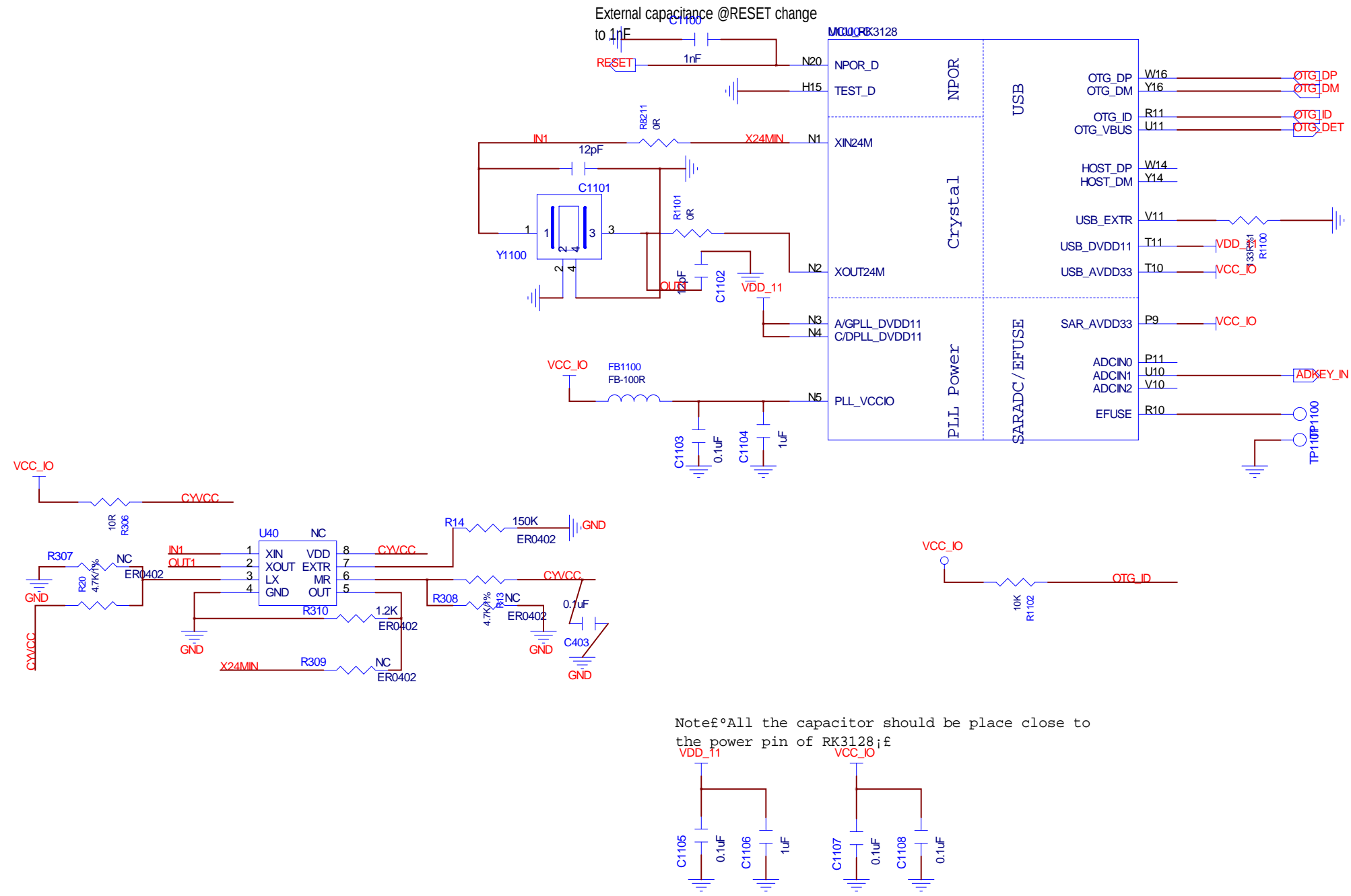
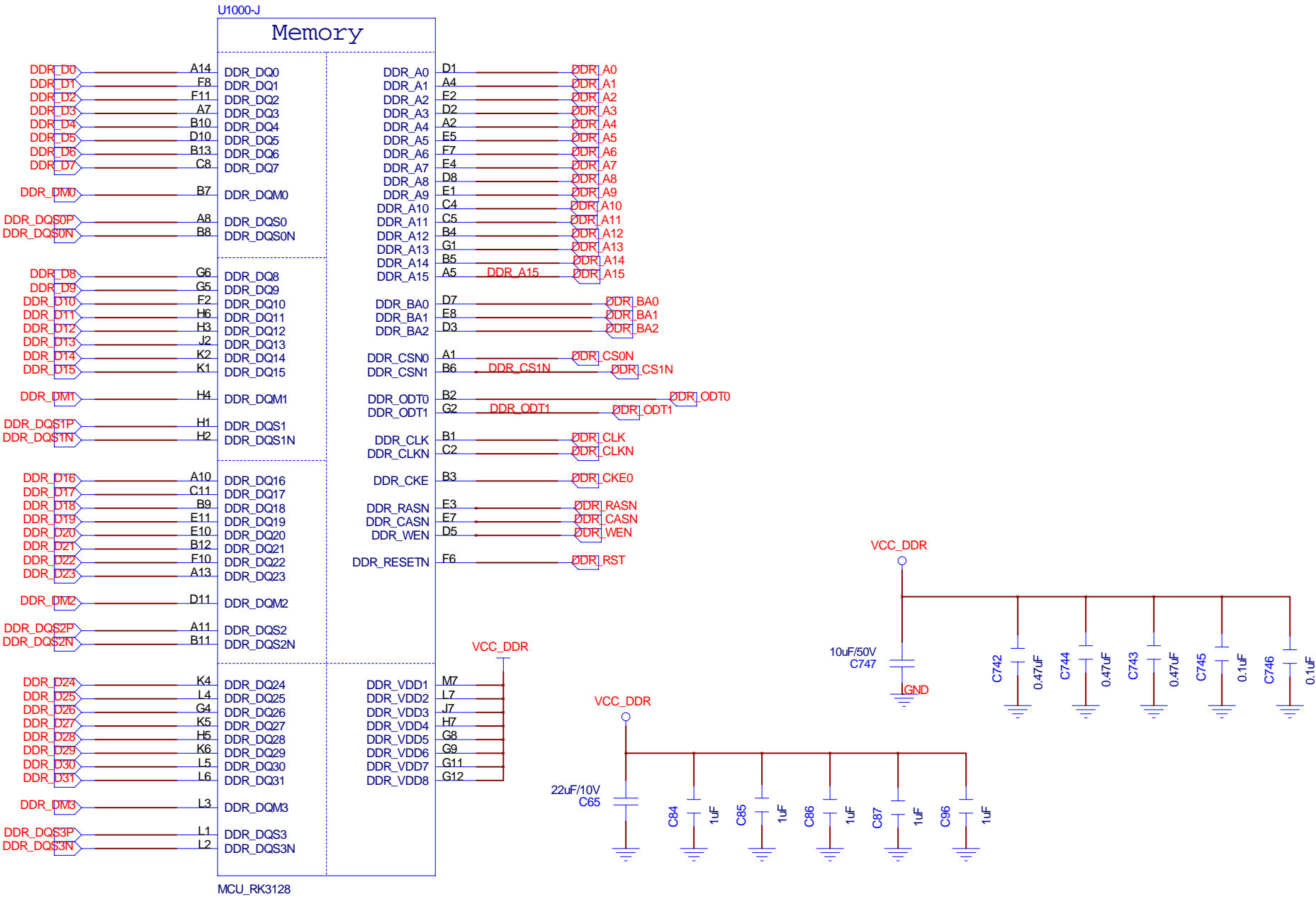


RK3128-L



RK3128-C





RK3128-D

MCU:RK3128

Nand Flash/eMMC/SFC/SPI

GPIO1\_D0/FLASH\_D0/EMMC\_D0/SFC\_SIO0\_U  
GPIO1\_D1/FLASH\_D1/EMMC\_D1/SFC\_SIO1\_U  
GPIO1\_D2/FLASH\_D2/EMMC\_D2/SFC\_SIO2\_U  
GPIO1\_D3/FLASH\_D3/EMMC\_D3/SFC\_SIO3\_U  
GPIO1\_D4/FLASH\_D4/EMMC\_D4/SPI\_RXD\_U  
GPIO1\_D5/FLASH\_D5/EMMC\_D5/SPI\_TXD\_U  
GPIO1\_D6/FLASH\_D6/EMMC\_D6/SPI\_CS0\_U  
GPIO1\_D7/FLASH\_D7/EMMC\_D7/SPI\_CS1\_U

GPIO2\_A0/FLASH\_ALE/SPI\_CLK\_D  
GPIO2\_A1/FLASH\_CLE\_D  
GPIO2\_A2/FLASH\_WRNSFC\_CS0\_U  
GPIO2\_A3/FLASH\_RDNSFC\_CS1\_U  
GPIO2\_A4/FLASH\_RDYEMMC\_CMD/SFC\_CLK\_U

GPIO2\_A6/FLASH\_CS0\_U  
GPIO2\_C7/FLASH\_CS1\_U  
GPIO1\_C6/FLASH\_CS2/EMMC\_CMD\_U  
GPIO1\_C7/FLASH\_CS3/EMMC\_RST\_U

GPIO2\_A5/FLASH\_WP/EMMC\_PWR\_D  
GPIO2\_A7/FLASH\_DQS/EMMC\_CLK0\_U

P16 — FLASH\_D0  
U20 — FLASH\_D1  
T19 — FLASH\_D2  
T20 — FLASH\_D3  
P18 — FLASH\_D4  
R19 — FLASH\_D5  
N15 — FLASH\_D6  
P17 — FLASH\_D7  
  
N16 —  
N17 —  
P20 —  
L15 —  
K17 —  
  
L16 —  
L17 —  
U19 — FLASH\_CS2/EMMC\_CMD  
P19 —  
  
V19 — FLASH\_WP/EMMC\_PWR  
N19 — FLASH\_DQS/EMMC\_CLK0

MCU:RK3128

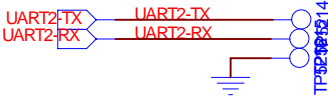
SDMMC0

GPIO1\_C2/SDMMC0\_D0/UART2\_TX\_U  
GPIO1\_C3/SDMMC0\_D1/UART2\_RX\_U  
GPIO1\_C4/SDMMC0\_D2/UTAG\_TCK\_U  
GPIO1\_C5/SDMMC0\_D3/UTAG\_TMS\_U

GPIO1\_C0/SDMMC0\_CLK0\_D  
GPIO1\_B7/SDMMC0\_CMD\_U

GPIO1\_C1/SDMMC0\_DET\_U  
GPIO1\_A7/SDMMC0\_WP\_D  
  
GPIO1\_B6/SDMMC0\_PWR\_D

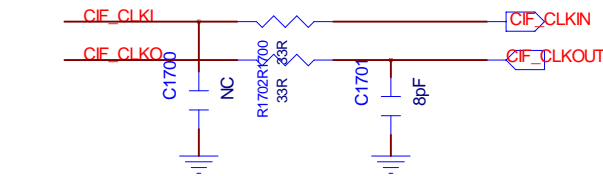
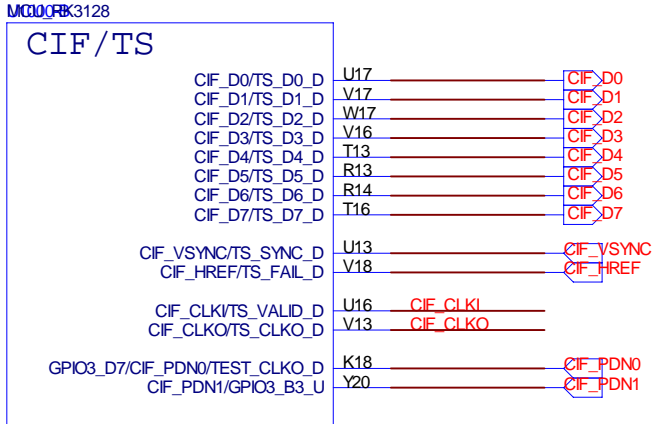
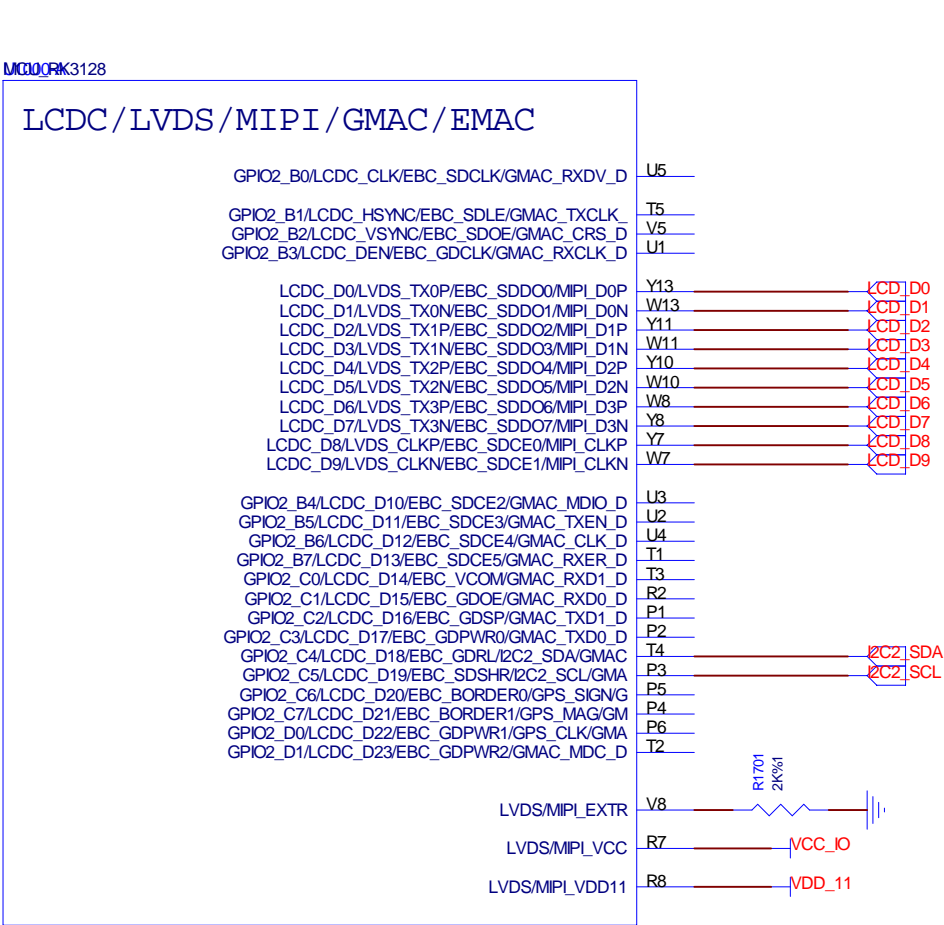
L18 — UART2-TX  
K15 — UART2-RX  
K16 —  
L19 —  
  
H20 — ADDRESET  
D18 — SENSECTR  
  
W19 — ES\_814\_EN  
L19 — GSENSOR\_INT  
  
N18 —



RK3128-FLASH/SD_CONTROLLER					
Title RK3128_FLASH/SD_CONTROLLER					
Size	Document Number	Author	ÖAÄİ	Revision	V1.1
A2	A.1				
Date:	Tuesday, January 02, 2018	Sheet	5	of	18

RK3128-A

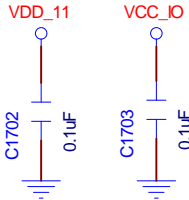
RK3128-B



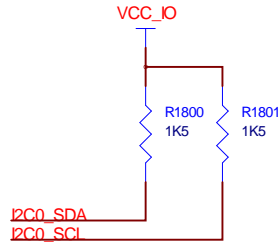
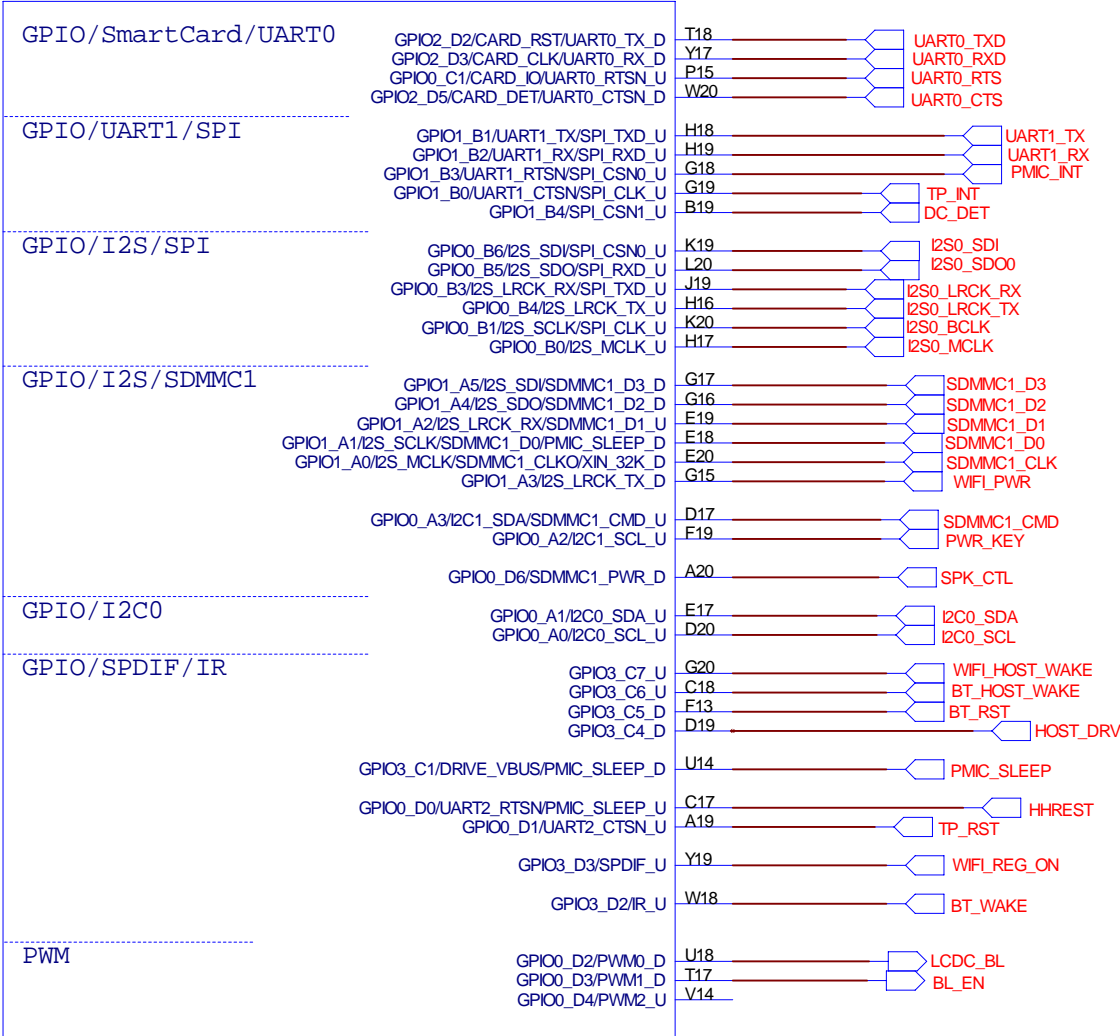
Note: 1. The display interface is a high-speed interface, and the signal lines should be connected to the display interface.

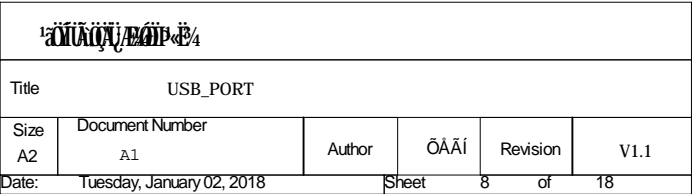
Correspondence between LCDC DATA and RGB

LCDC_D0	B2	LCDC_D9	G5
LCDC_D1	B3	LCDC_D10	G6
LCDC_D2	B4	LCDC_D11	G7
LCDC_D3	B5	LCDC_D12	R2
LCDC_D4	B6	LCDC_D13	R3
LCDC_D5	B7	LCDC_D14	R4
LCDC_D6	G2	LCDC_D15	R5
LCDC_D7	G3	LCDC_D16	R6
LCDC_D8	G4	LCDC_D17	R7



Model: RK3128








The schematic diagram illustrates the power management system centered around the RK818 IC. Key components and connections include:

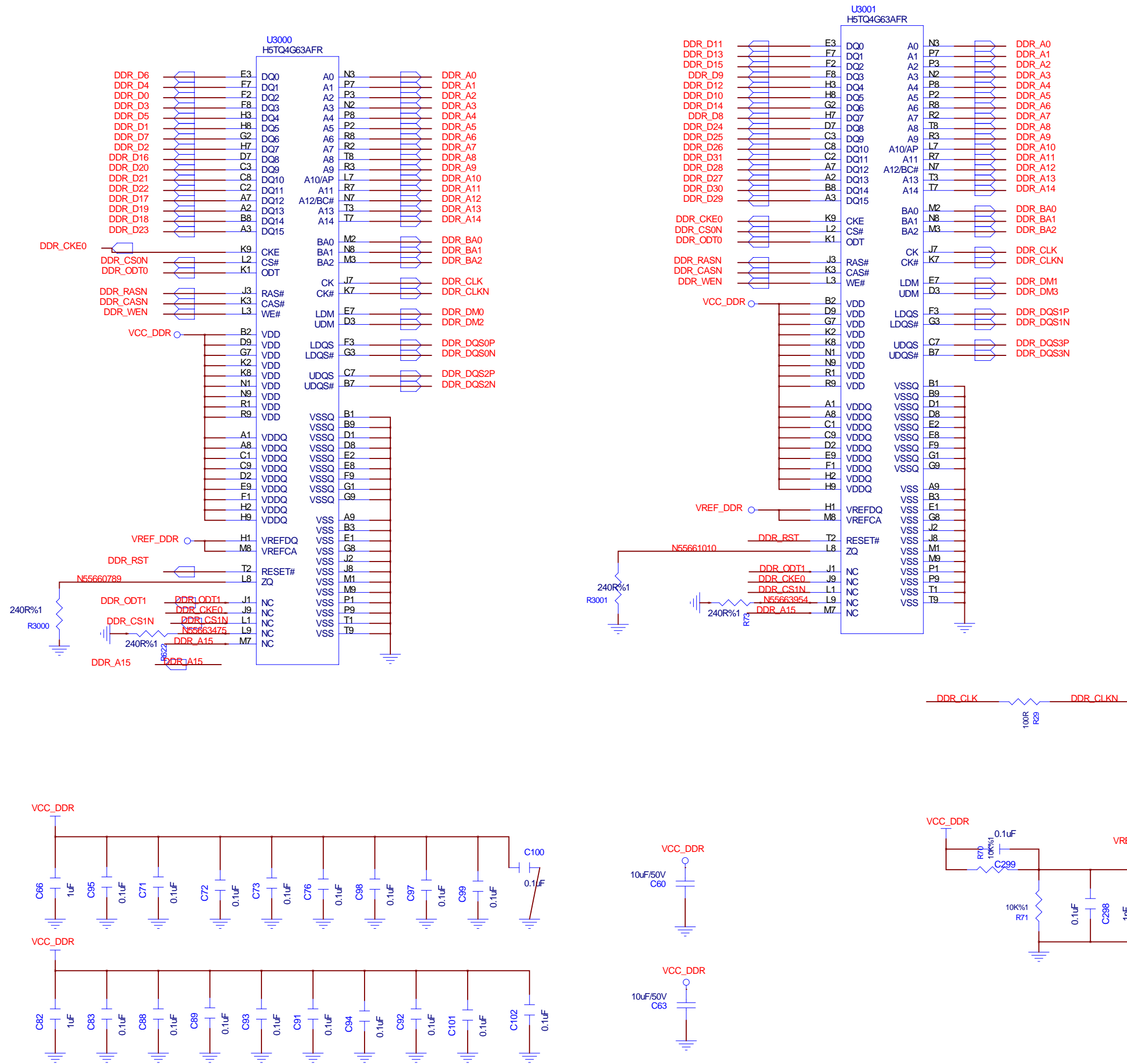
- DCDC Blocks:** DCDC1 (Buck1, 2.5A, 1.1V), DCDC2 (Buck2, 2.5A, 1.1V), DCDC3 (Buck3, 1A, 1.2V), and DCDC4 (Buck4, 1.5A, 3.0V).
- LDOs:** LDOs for VDD\_ARM, VDD\_LOG, VDD\_SYS, VDD\_IO, and VDDIO.
- RTC:** Real-time clock block with pins for OSC32KIN, GNDPAD, OSC32KOUT, and ALWAYS\_ON.
- Control Pins:** PMIC\_SLEEP, PMIC\_WAKE, RESET, BOOT1, BOOT0, and various status pins like SDA and SCL.
- External Components:** Capacitors (C2101, C2102, C2106, C2107, C2108, C2109, C2110, C2111, C2112, C2113, C2114, C2115, C2116, C2117, C2118, C2119, C2120, C2121, C2122, C2123, C2124, C2125, C2126, C2127, C2128, C2129, C2130, C2131, C2132, C2133, C2134, C2135, C2136, C2137, C2138, C2139, C2140, C2141, C2142, C2143, C2144, C2145, C2146, C2147, C2148, C2149, C2150, C2151, C2152, C2153, C2154, C2155, C2156, C2157, C2158, C2159, C2160, C2161, C2162, C2163, C2164, C2165, C2166, C2167, C2168, C2169, C2170, C2171, C2172, C2173, C2174, C2175, C2176, C2177, C2178, C2179, C2180, C2181, C2182, C2183, C2184, C2185, C2186, C2187, C2188, C2189, C2190, C2191, C2192, C2193, C2194, C2195, C2196, C2197, C2198, C2199, C2200, C2201, C2202, C2203, C2204, C2205, C2206, C2207, C2208, C2209, C2210, C2211, C2212, C2213, C2214, C2215, C2216, C2217, C2218, C2219, C2220, C2221, C2222, C2223, C2224, C2225, C2226, C2227, C2228, C2229, C2230, C2231, C2232, C2233, C2234, C2235, C2236, C2237, C2238, C2239, C2240, C2241, C2242, C2243, C2244, C2245, C2246, C2247, C2248, C2249, C2250, C2251, C2252, C2253, C2254, C2255, C2256, C2257, C2258, C2259, C2260, C2261, C2262, C2263, C2264, C2265, C2266, C2267, C2268, C2269, C2270, C2271, C2272, C2273, C2274, C2275, C2276, C2277, C2278, C2279, C2280, C2281, C2282, C2283, C2284, C2285, C2286, C2287, C2288, C2289, C2290, C2291, C2292, C2293, C2294, C2295, C2296, C2297, C2298, C2299, C2300, C2301, C2302, C2303, C2304, C2305, C2306, C2307, C2308, C2309, C2310, C2311, C2312, C2313, C2314, C2315, C2316, C2317, C2318, C2319, C2320, C2321, C2322, C2323, C2324, C2325, C2326, C2327, C2328, C2329, C2330, C2331, C2332, C2333, C2334, C2335, C2336, C2337, C2338, C2339, C2340, C2341, C2342, C2343, C2344, C2345, C2346, C2347, C2348, C2349, C2350, C2351, C2352, C2353, C2354, C2355, C2356, C2357, C2358, C2359, C2360, C2361, C2362, C2363, C2364, C2365, C2366, C2367, C2368, C2369, C2370, C2371, C2372, C2373, C2374, C2375, C2376, C2377, C2378, C2379, C2380, C2381, C2382, C2383, C2384, C2385, C2386, C2387, C2388, C2389, C2390, C2391, C2392, C2393, C2394, C2395, C2396, C2397, C2398, C2399, C2400, C2401, C2402, C2403, C2404, C2405, C2406, C2407, C2408, C2409, C2410, C2411, C2412, C2413, C2414, C2415, C2416, C2417, C2418, C2419, C2420, C2421, C2422, C2423, C2424, C2425, C2426, C2427, C2428, C2429, C2430, C2431, C2432, C2433, C2434, C2435, C2436, C2437, C2438, C2439, C2440, C2441, C2442, C2443, C2444, C2445, C2446, C2447, C2448, C2449, C2450, C2451, C2452, C2453, C2454, C2455, C2456, C2457, C2458, C2459, C2460, C2461, C2462, C2463, C2464, C2465, C2466, C2467, C2468, C2469, C2470, C2471, C2472, C2473, C2474, C2475, C2476, C2477, C2478, C2479, C2480, C2481, C2482, C2483, C2484, C2485, C2486, C2487, C2488, C2489, C2490, C2491, C2492, C2493, C2494, C2495, C2496, C2497, C2498, C2499, C2500, C2501, C2502, C2503, C2504, C2505, C2506, C2507, C2508, C2509, C2510, C2511, C2512, C2513, C2514, C2515, C2516, C2517, C2518, C2519, C2520, C2521, C2522, C2523, C2524, C2525, C2526, C2527, C2528, C2529, C2530, C2531, C2532, C2533, C2534, C2535, C2536, C2537, C2538, C2539, C2540, C2541, C2542, C2543, C2544, C2545, C2546, C2547, C2548, C2549, C2550, C2551, C2552, C2553, C2554, C2555, C2556, C2557, C2558, C2559, C2560, C2561, C2562, C2563, C2564, C2565, C2566, C2567, C2568, C2569, C2570, C2571, C2572, C2573, C2574, C2575, C2576, C2577, C2578, C2579, C2580, C2581, C2582, C2583, C2584, C2585, C2586, C2587, C2588, C2589, C2590, C2591, C2592, C2593, C2594, C2595, C2596, C2597, C2598, C2599, C2600, C2601, C2602, C2603, C2604, C2605, C2606, C2607, C2608, C2609, C2610, C2611, C2612, C2613, C2614, C2615, C2616, C2617, C2618, C2619, C2620, C2621, C2622, C2623, C2624, C2625, C2626, C2627, C2628, C2629, C2630, C2631, C2632, C2633, C2634, C2635, C2636, C2637, C2638, C2639, C2640, C2641, C2642, C2643, C2644, C2645, C2646, C2647, C2648, C2649, C2650, C2651, C2652, C2653, C2654, C2655, C2656, C2657, C2658, C2659, C2660, C2661, C2662, C2663, C2664, C2665, C2666, C2667, C2668, C2669, C2670, C2671, C2672, C2673, C2674, C2675, C2676, C2677, C2678, C2679, C2680, C2681, C2682, C2683, C2684, C2685, C2686, C2687, C2688, C2689, C2690, C2691, C2692, C2693, C2694, C2695, C2696, C2697, C2698, C2699, C2700, C2701, C2702, C2703, C2704, C2705, C2706, C2707, C2708, C2709, C2710, C2711, C2712, C2713, C2714, C2715, C2716, C2717, C2718, C2719, C2720, C2721, C2722, C2723, C2724, C2725, C2726, C2727, C2728, C2729, C2730, C2731, C273

	above 80 miles
	above 50 miles
	above 30 miles
	above 12 miles
No indicate	Under needs

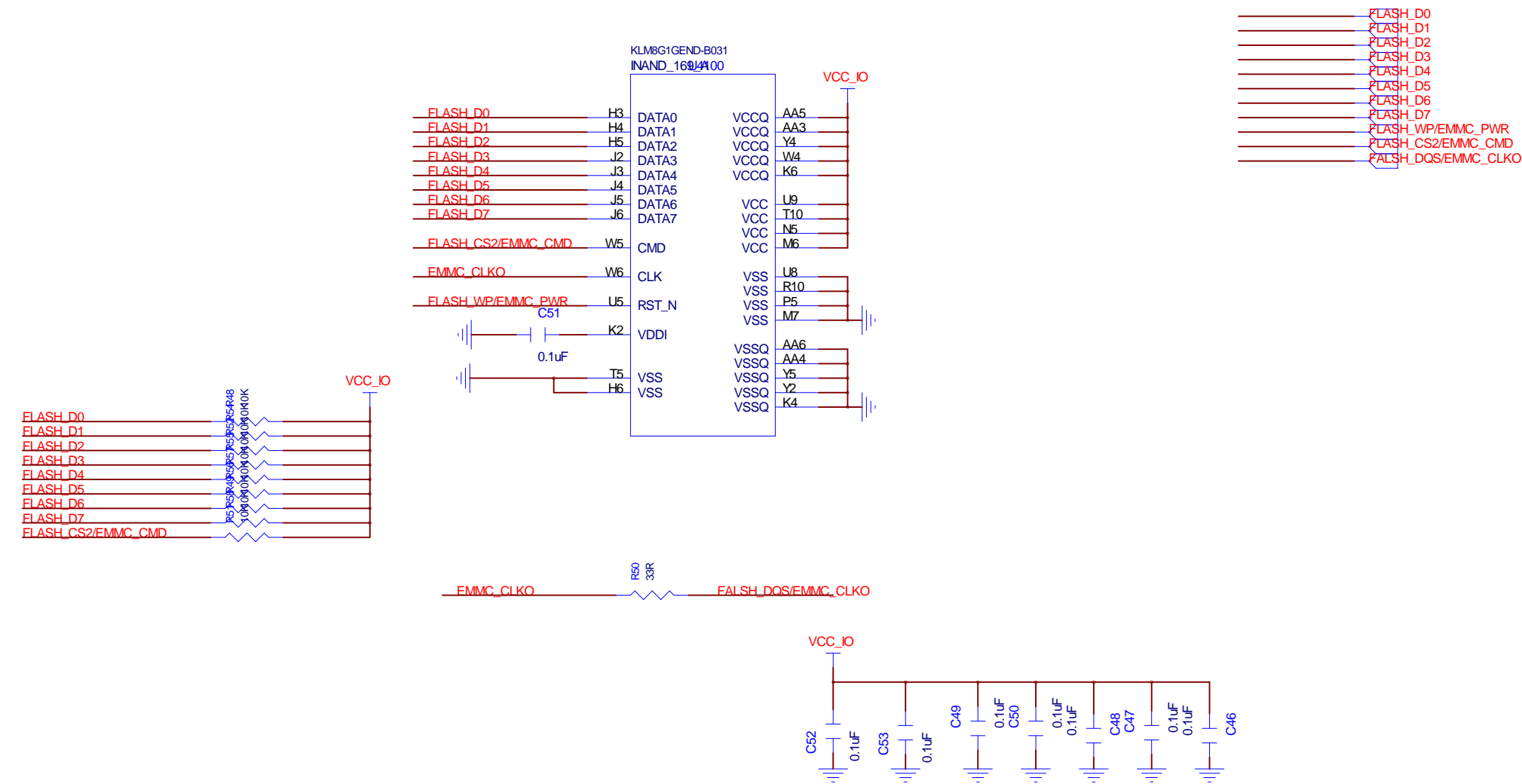
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VDD_ARM	CDCM01	3.0V/0.75V	1.0V	ON/OFF
VDD_I2C0	DCDC2	solt:1 ON	1.1V	ON
VDD_LVDO	DCDC4	solt:1 ON	3.0V	ON
VCC_DDR	DCDC3	solt:5 ON	DDR3 1.5V LPDDR 1.2V	ON
VCCA_TPT	VLDO1	X OFF	3.3V	OFF
VCCA_CODEC	VLDO2	X OFF	3.0V	OFF
VDD_12	VLDO3	solt:1 ON	1.1V	ON
VCC8_CIF0	VLDO4	solt:2 ON	2.5V	OFF
VCC_PMU2	VLDO5	solt:1 ON	3.0V	ON
VDD_12	VLDO6	X OFF	1.2V	OFF
VCC18_CIF	VLDO7	solt:2 ON	1.8V	OFF
VCC8_CIF	VLDO8	X OFF	1.8V	OFF
VCC_SD	VLDO9	solt:5 ON	3.0V	OFF
VCC_LCD	VSWM01	X OFF	3.0V	OFF

<div style="text-align: center;">  <p>ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅԱՆ ՊԱՐԹՈՒՄԻ ՆԱԽԱՐԱՐՈՒԹՅԱՆ ԿՐԹԱԿԱՆԱԿԱՆ ԿԵՆՏՐՈՆ</p> </div>				
<div style="display: flex; justify-content: space-between;"> <div> <p>Title</p> <p>POWER-RK818</p> </div> </div>				
Size A2	Document Number Ա1	Author	ՕԱԱԻ	Revision V1.1
Date: Tuesday, January 02, 2018		Sheet 9 of 18		

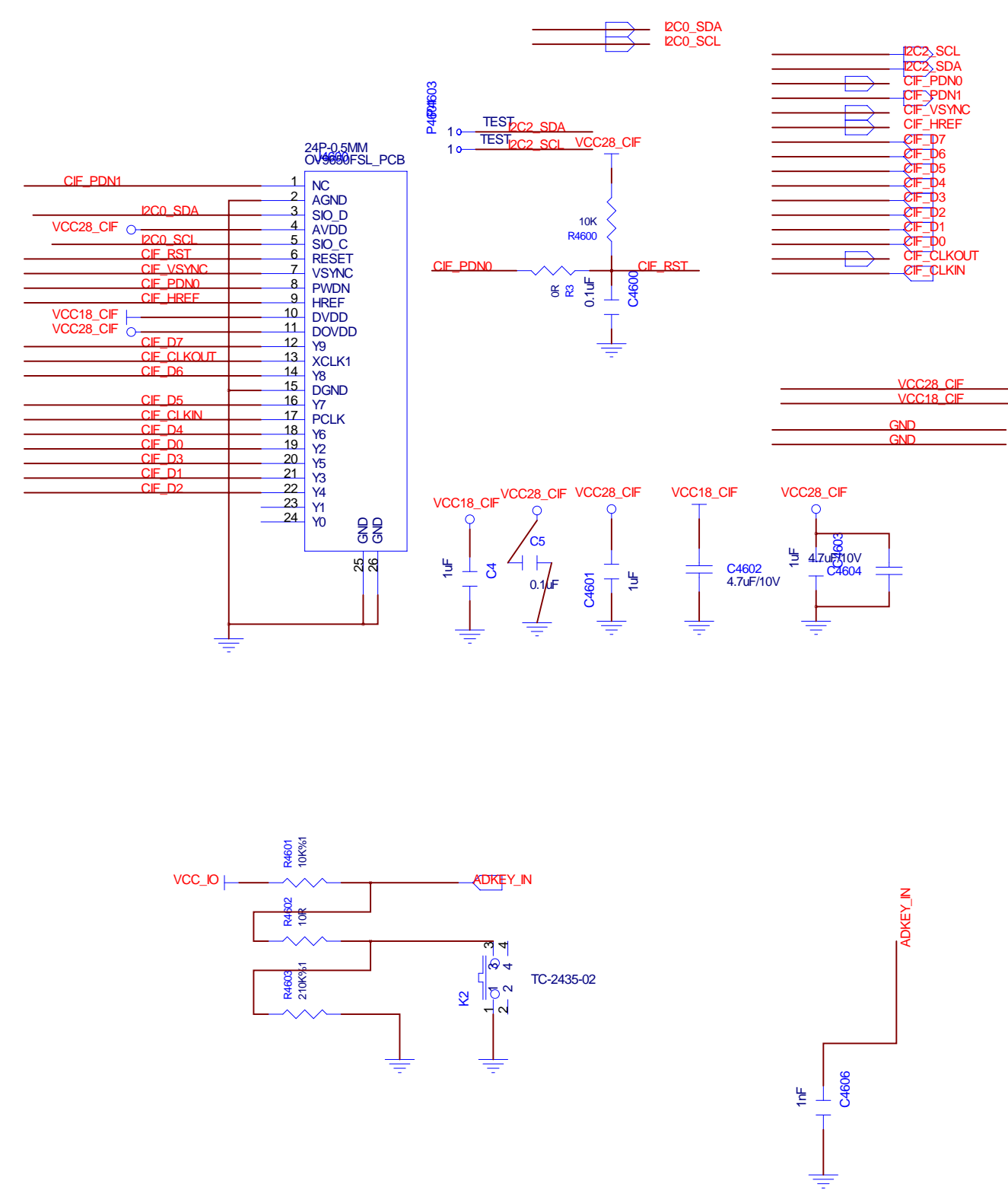
DDR3



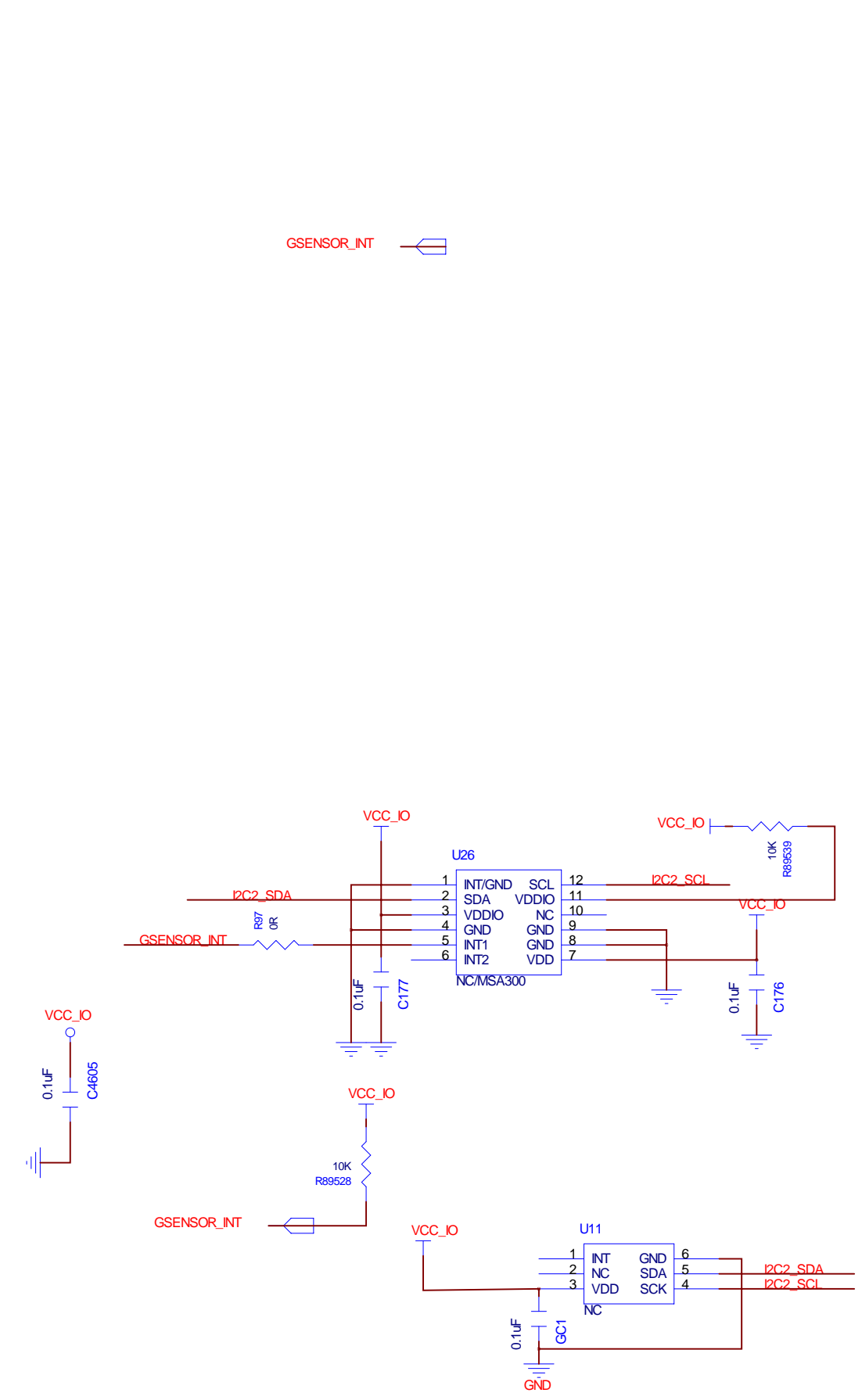
eMMC FLASH



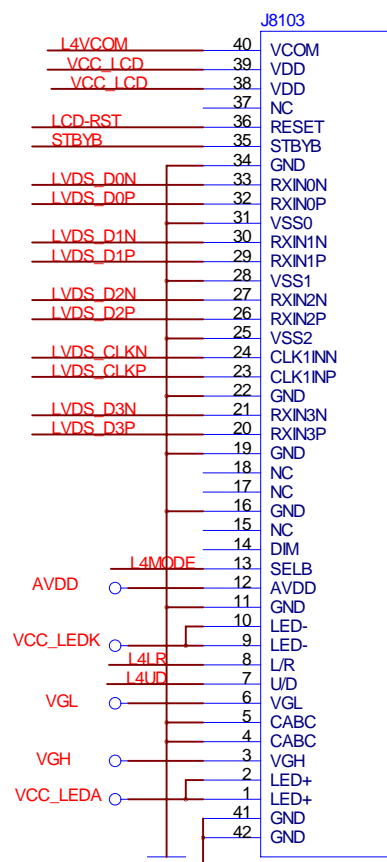
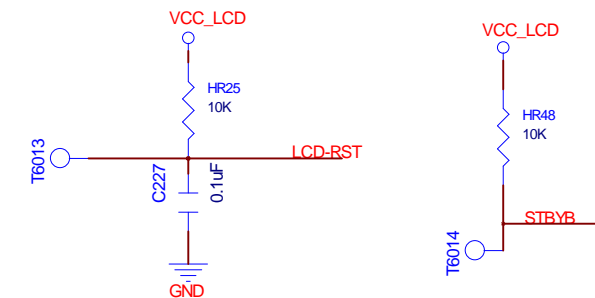
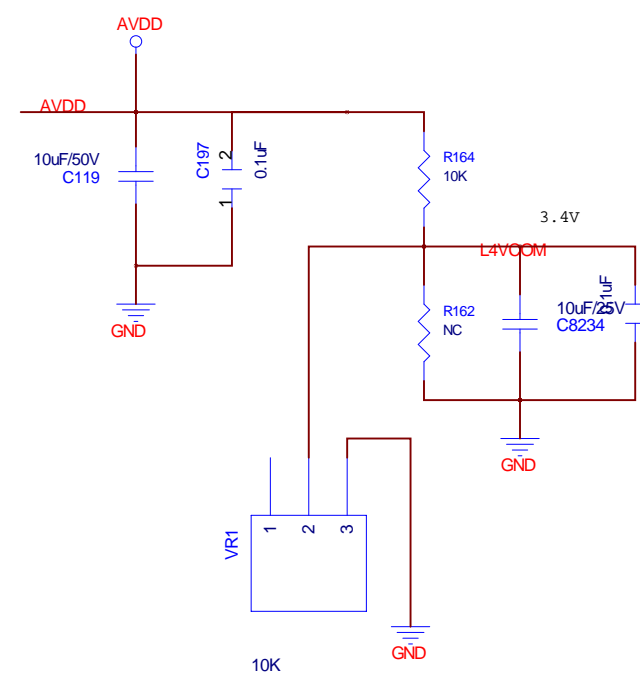
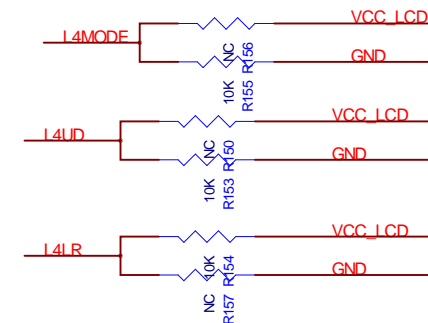
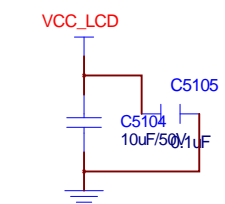
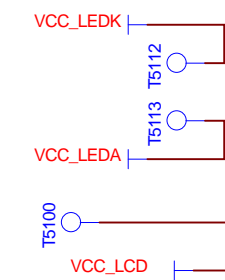
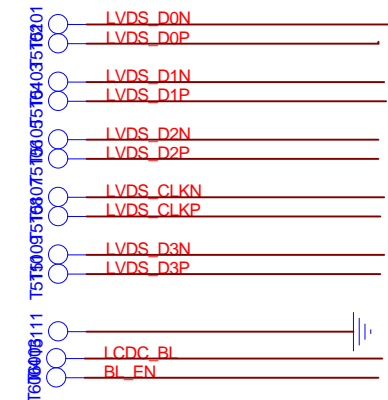
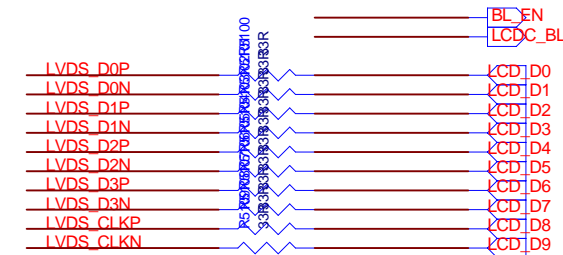
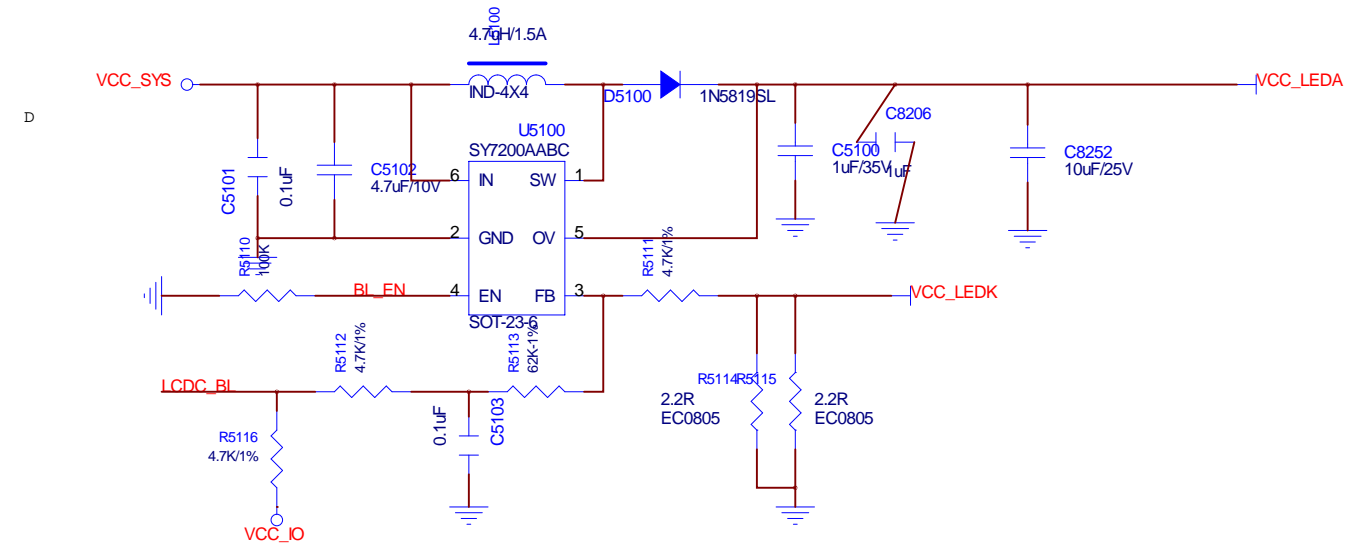
Note:  
NC or reserve a PAD.



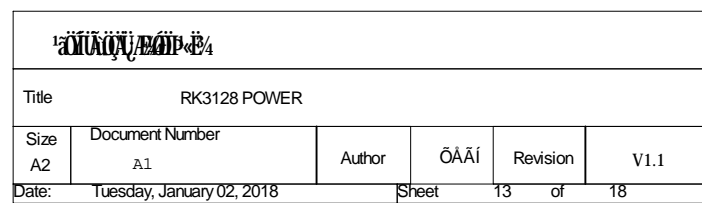
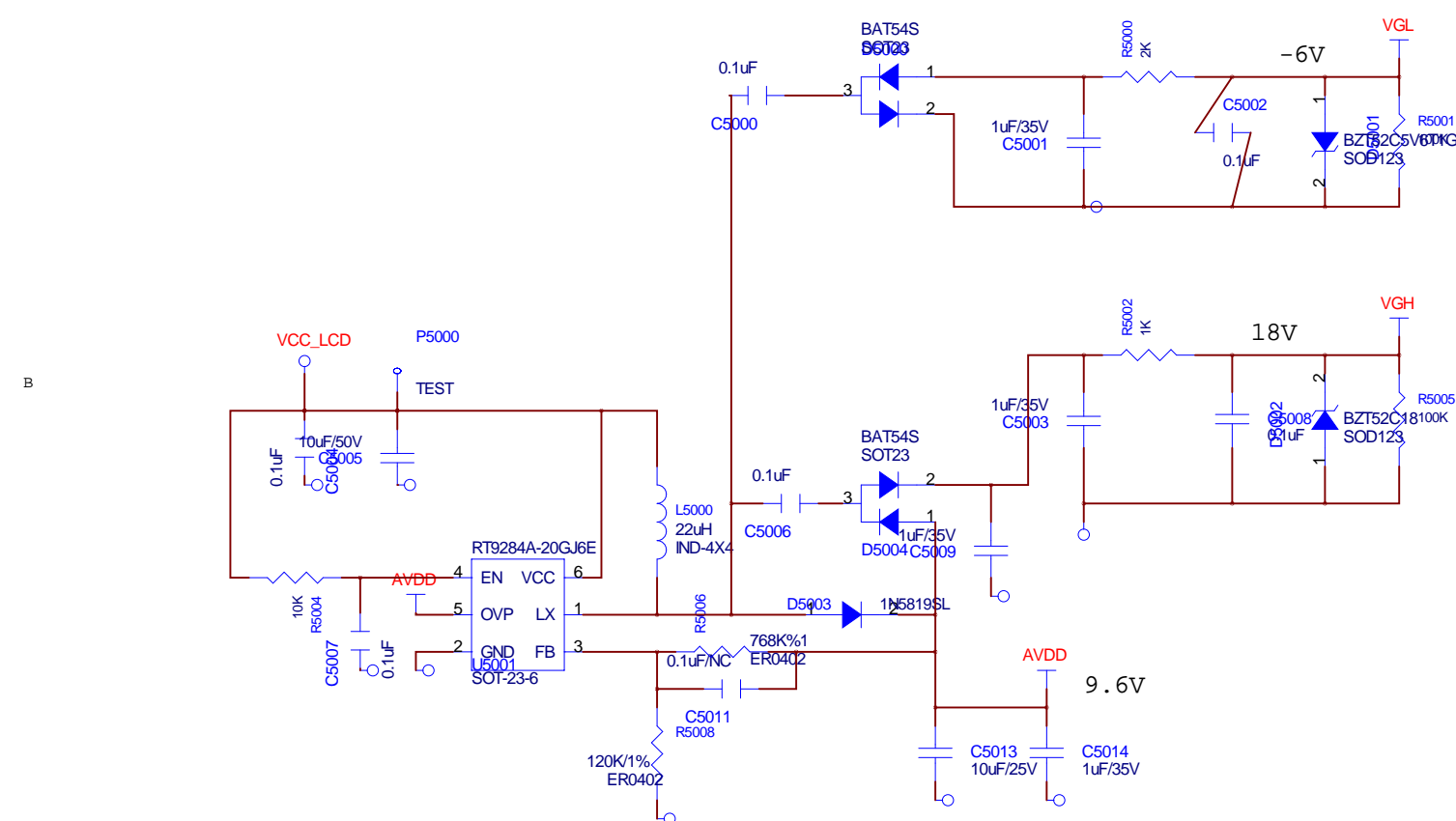
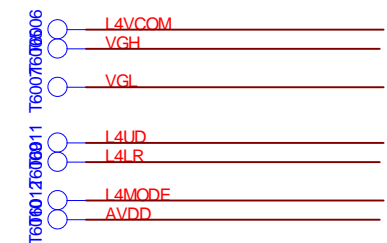
When the system power on, the Adkey\_in level is 0V,  
RK2928 enter into loader mode.



## LVDS Panel

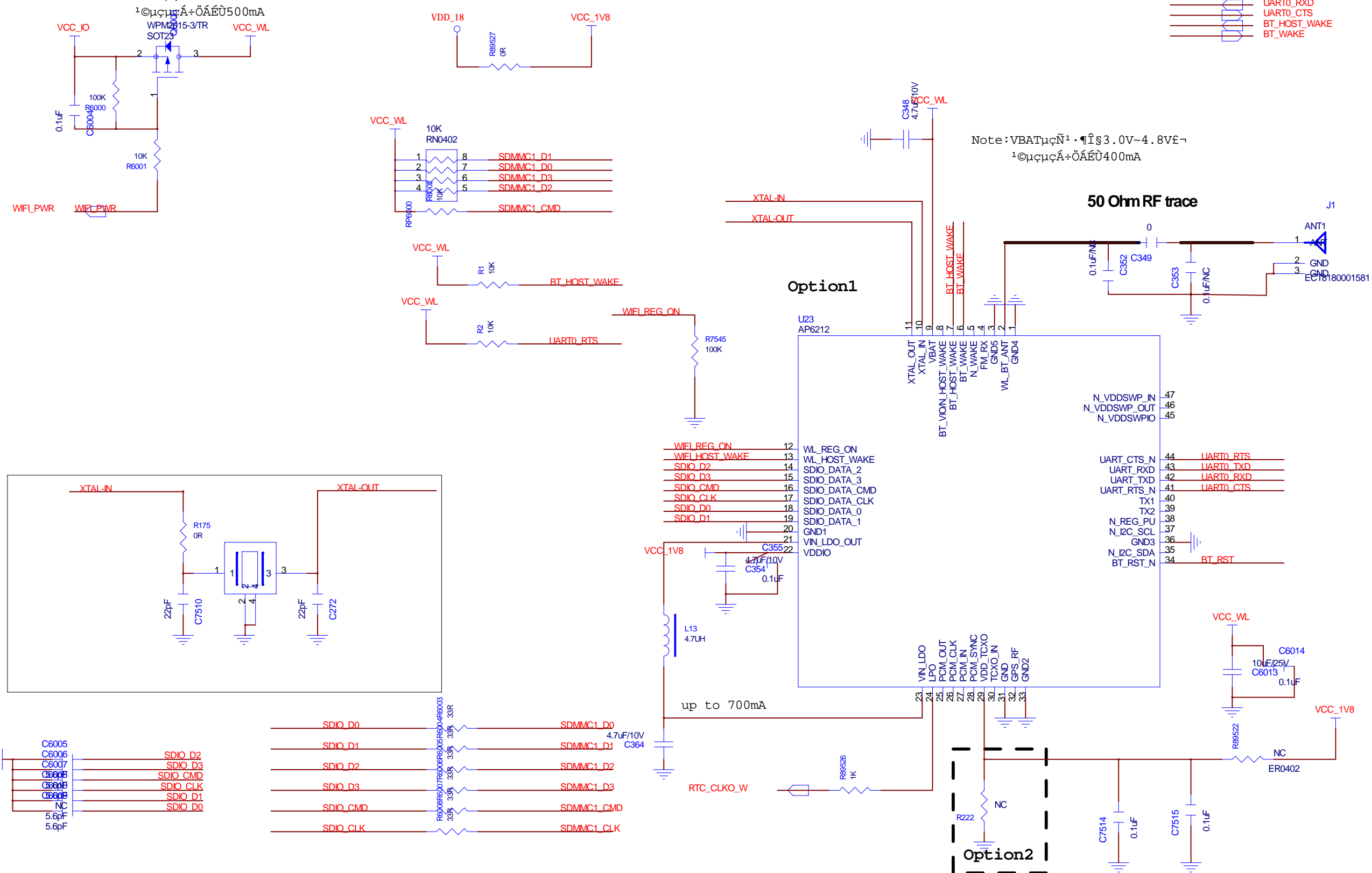


40P-0.5MM  
8 Interface



F23BDSM25-W1 VCC\_WL=3.5~5.0V

WPM2815-3/TR VCC\_W



MD100RF3128

CODEC

CODEC\_AOL B17  
CODEC\_AOR B15

CODEC\_AOM5 A16  
CODEC\_AOM B18

CODEC\_HPDET C14

CODEC\_AIL C18  
CODEC\_AIR D18

CODEC\_MCBIAS B18

CODEC\_MICL E14  
CODEC\_MICR E16

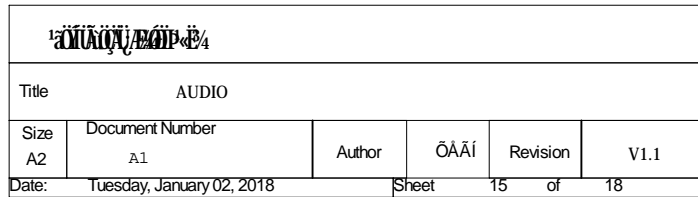
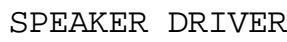
CODEC\_VCM A17

CODEC\_AVDD D13

CODEC\_AVSS D14

4.7kF/10V C700

VCCA, CODEC



TOUCH CONNECTOR

