



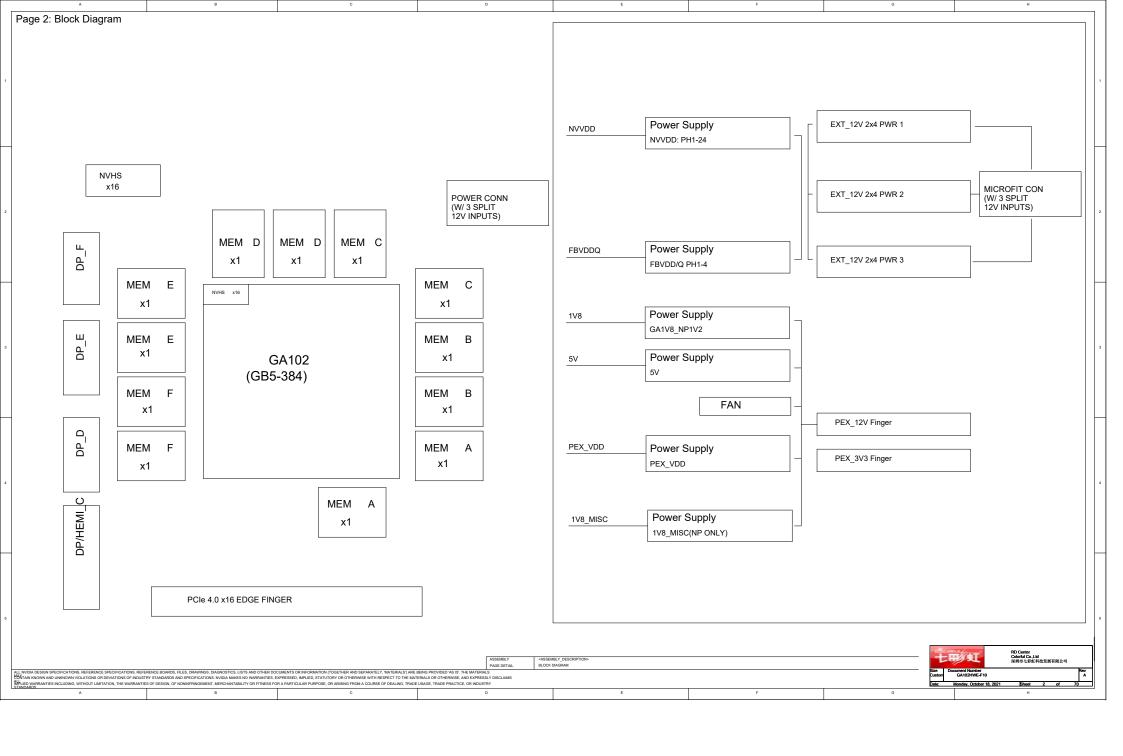
GA102/NP, GeForce SKU P-BOARD 450W/600W, 384BITS, GDDR6X, x16 24GB DP+DP+DP+HDMI TABLE OF CONTENTS Description Description Page Page Description Page Table of Contents 26 GPU: GPIO. THERMAL, JTAG PS:NVVDD PH19.PH20(PWM2) 51 **BLOCK DIAGRAM** 27 IFPA UNUSED, IFPB UNUSED 52 PS:NVVDD PH21, PH22(PWM12) 2 3 PCI EXPRESS 28 IFPC HDMI/DP 53 PS: NVVDD PH23.PH24(PWM9) MEMORY: GPU PARTITION A/B IFPD DP PS: INPUT CAP 29 54 IFPE DP 5 MEMORY: FBA PARTITION[31:0] 55 PS: NVVDD OUTPUT CAP(1/5) 30 PS: NVVDD OUTPUT CAP (2/5) 6 MEMORY: FBA PARTITION[63:32] 31 IFPF DP 56 MEMORY: FBB PARTITION[31:0] 32 MISC. ROM, STRAPS 57 PS: NVVDD OUTPUT CAP (3/5) MEMORY: FBB PARTITION[63:31] 33 MISC. XTAL, PLL PS: NVVDD OUPTUT CAP(4/5) MEMORY: GPU PARTITION C/D PS: 5V PS: NVVDD OUTPUT CAP(5/5) 9 34 59 10 MEMORY: FBC PARTITION[31:0] 35 PS: PEX DVDD, GA1V8 NP1V2 60 PS: INPUTS. FILTERING. MONITORING MEMORY: FBC PARTITION[63:32] PS: NP1V8(NP ONLY), 1V8_MISC PS: PREFILTER A 11 36 61 MEMORY: FBD PARTITION[31:0] 37 PS: NVVDD/FBVDD 16PH VR PS: PREFILTER B 12 62 MEMORY: FBD PARTITION[63:32] PS: FBVDD PH1 (PWM1) and PH4 (PWM4) SEQ: 5V, GA1V8_NP1V2 EN, 3V3_SEQ, 3V3_PROT 13 38 63 MEMORY: GPU PARTITION E/F PS: FBVDD PH2 (PWM2) and PH3 (PWM3) SEQ: NV. PEX. FB EN 14 39 64 MEMORY: FBE PARTITION 31:01 PS: FBVDD OUTPUT CAP NEAR VR SEQ: MISC, PEX3V3 MONITOR 15 40 16 MEMORY: FBE PARTITION[63:32] 41 PS: FBVDD OUTPUT CAP NEAR MEMORY 66 FAN & NORTH LOGO LED 17 MEMORY: FBF PARTITION[31:0] 42 PS: NVVDD PH1, PH2(PWM1) 67 X/V LEDs 18 MEMORY: FBF PARTITION[63:32] 43 PS: NVVDD PH3, PH4(PWM5) 68 MECH & VR THERMAL PROTECTION PS: NVVDD PH5, PH6(PWM10) MEMORY DECOUPLING 19 44 69 20 GPU: GND. NC 45 PS: NVVDD PH7, PH8(PWM8) 70 INPUT PRESENT & HOT UNPLUG 21 GPU: GPU POWER 46 PS: NVVDD PH9, PH10(PWM6) PS: NVVDD PH11, PH12(PWM3) 22 GPU: NVVDD DECOUPLING(1/2) 47 23 GPU: NVVDD DECOUPLING(2/2) 48 PS: NVVDD PH13, PH14 (PWM7 24 GPU: FBVDD DECOUPLING 49 PS: NVVDD PH15, PH16 (PWM11) 25 GPU: NVHS x16 50 PS: NVVDD PH17, PH18(PWM4)

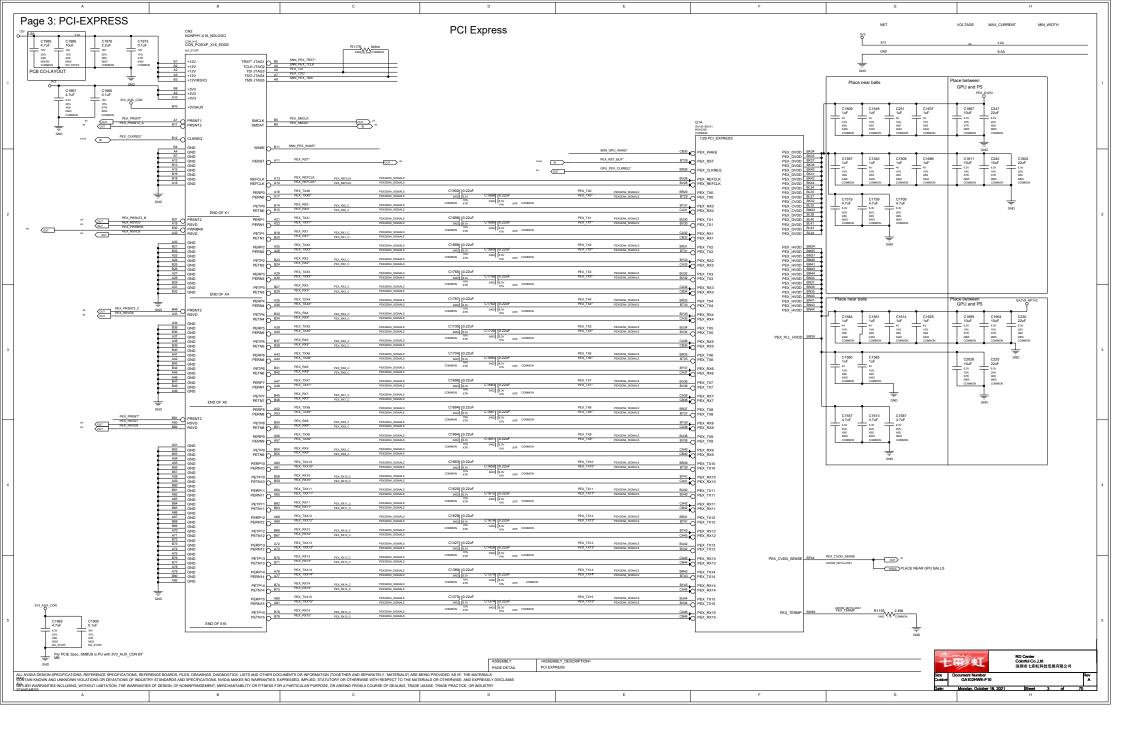
PAGE DETAIL

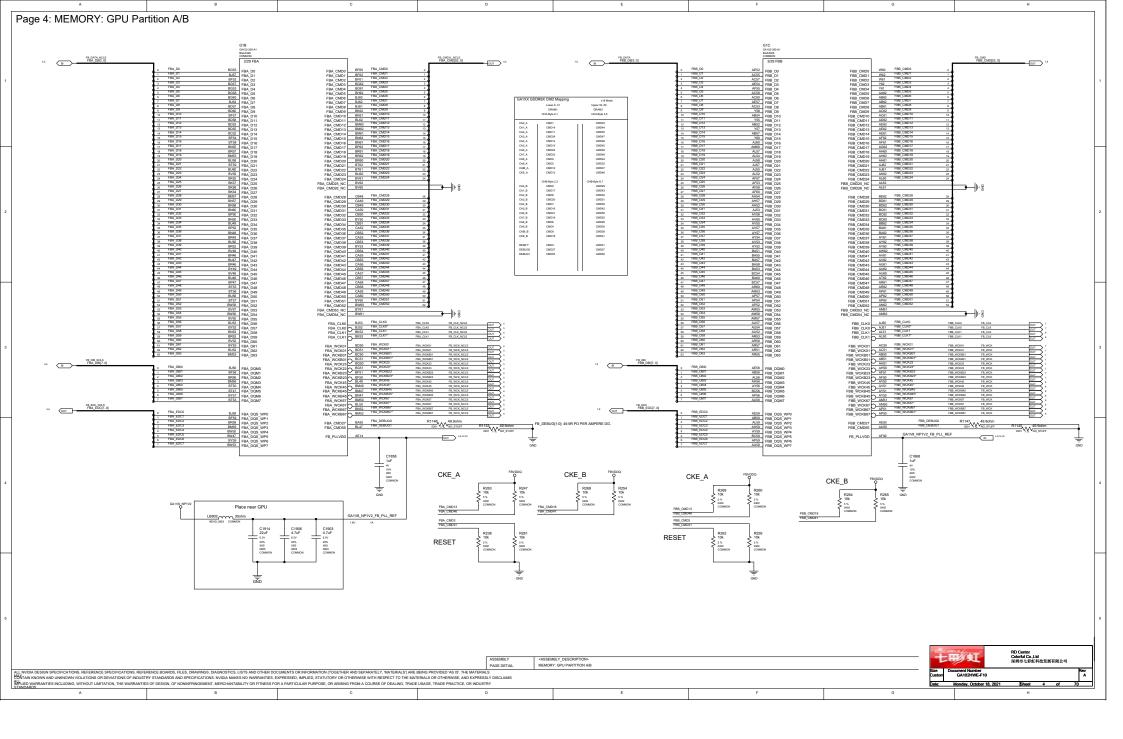
Table of Contents

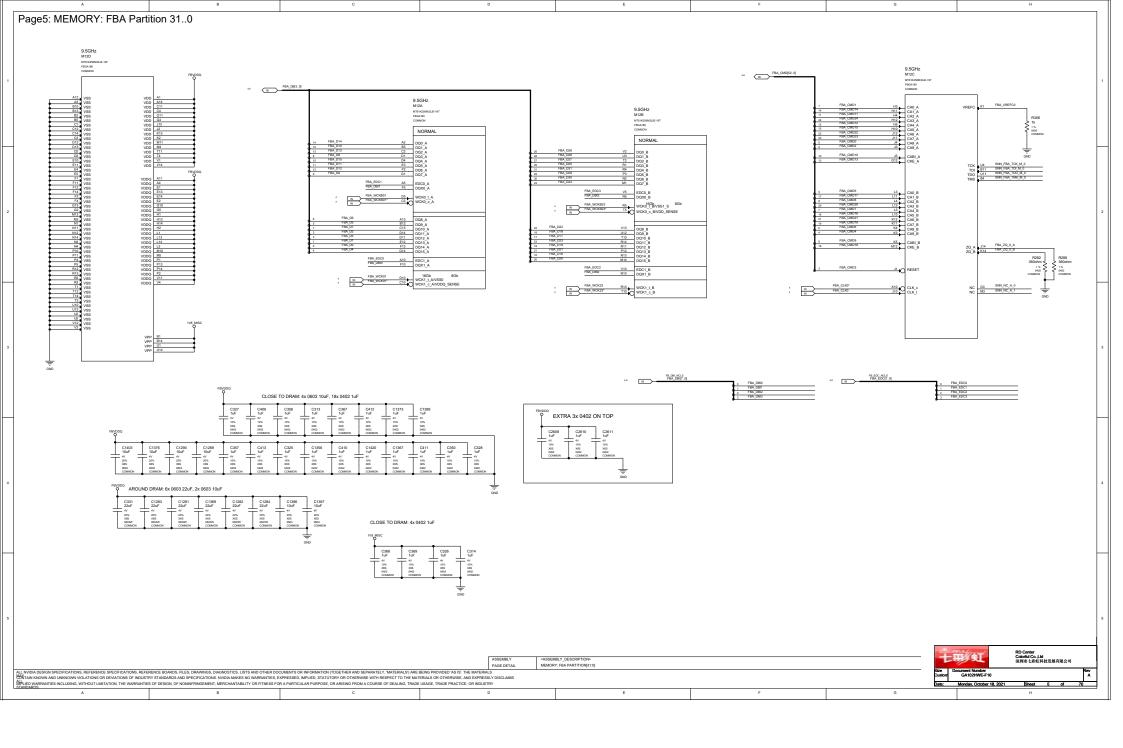
ALL MOUND ESSION SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFFERENCE SPECI

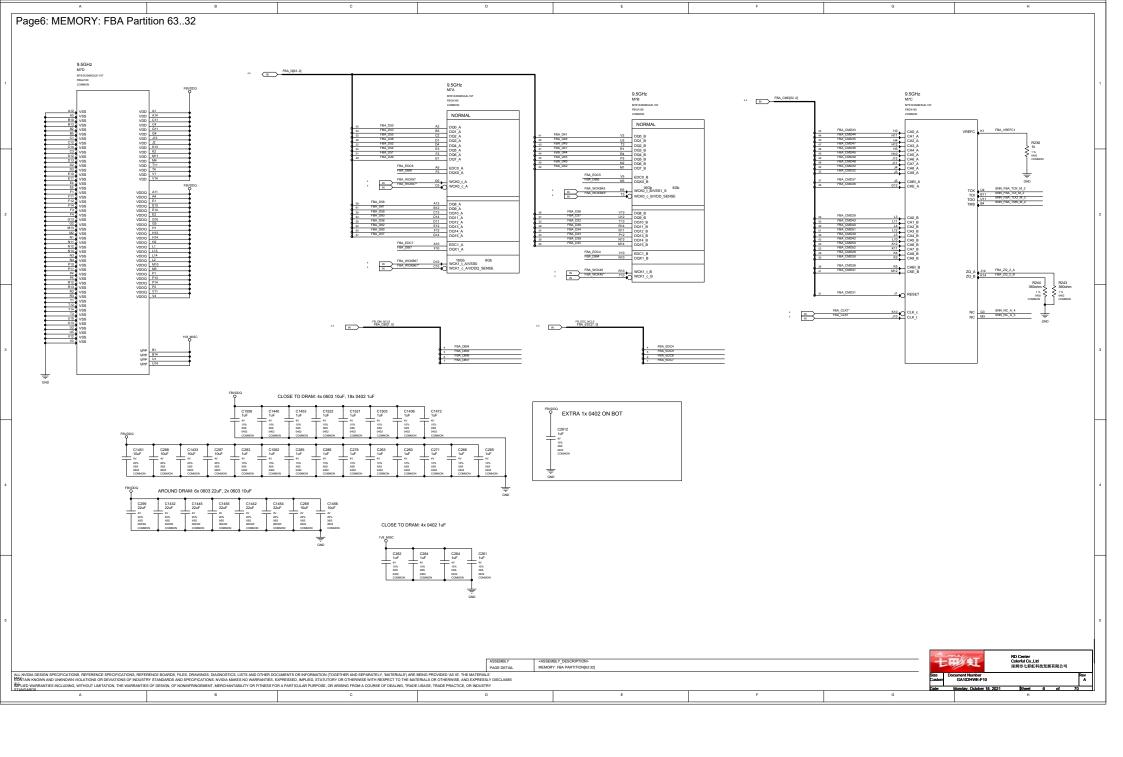


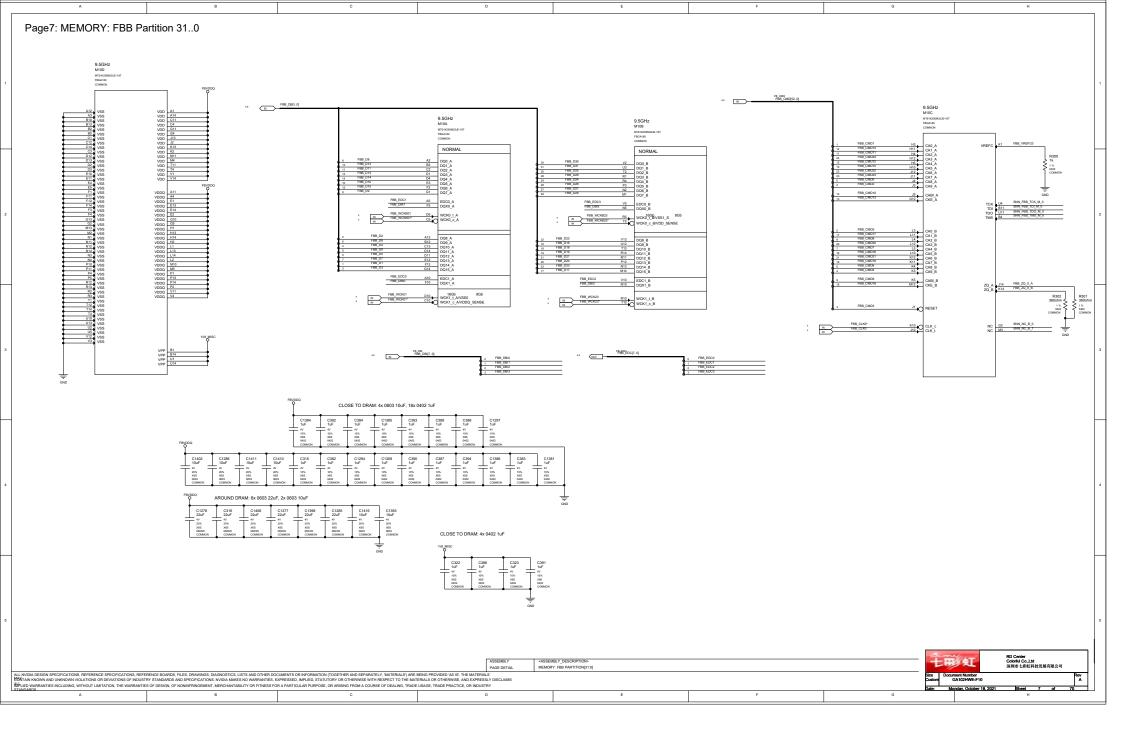


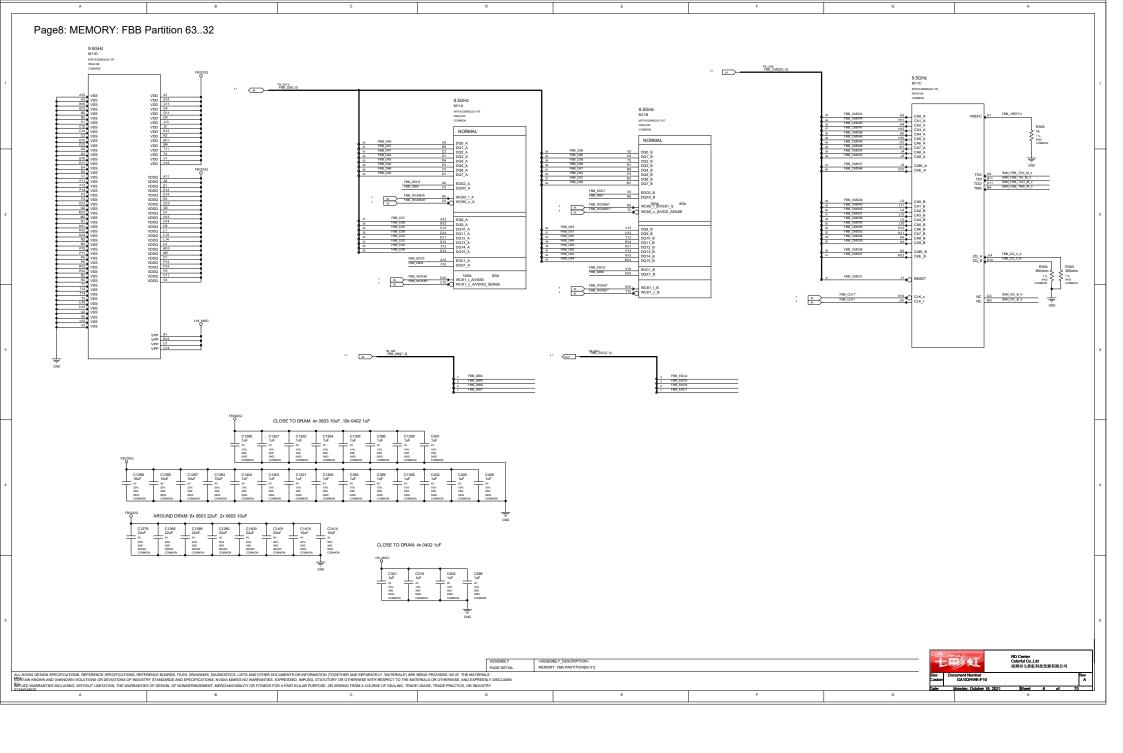


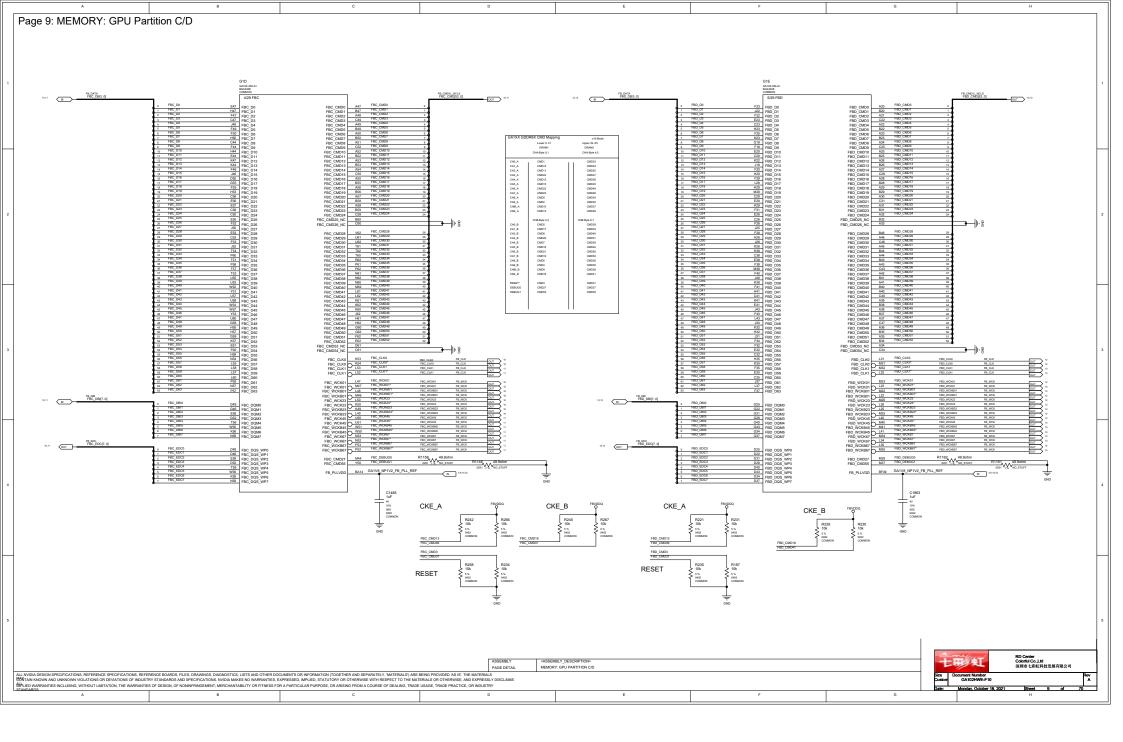


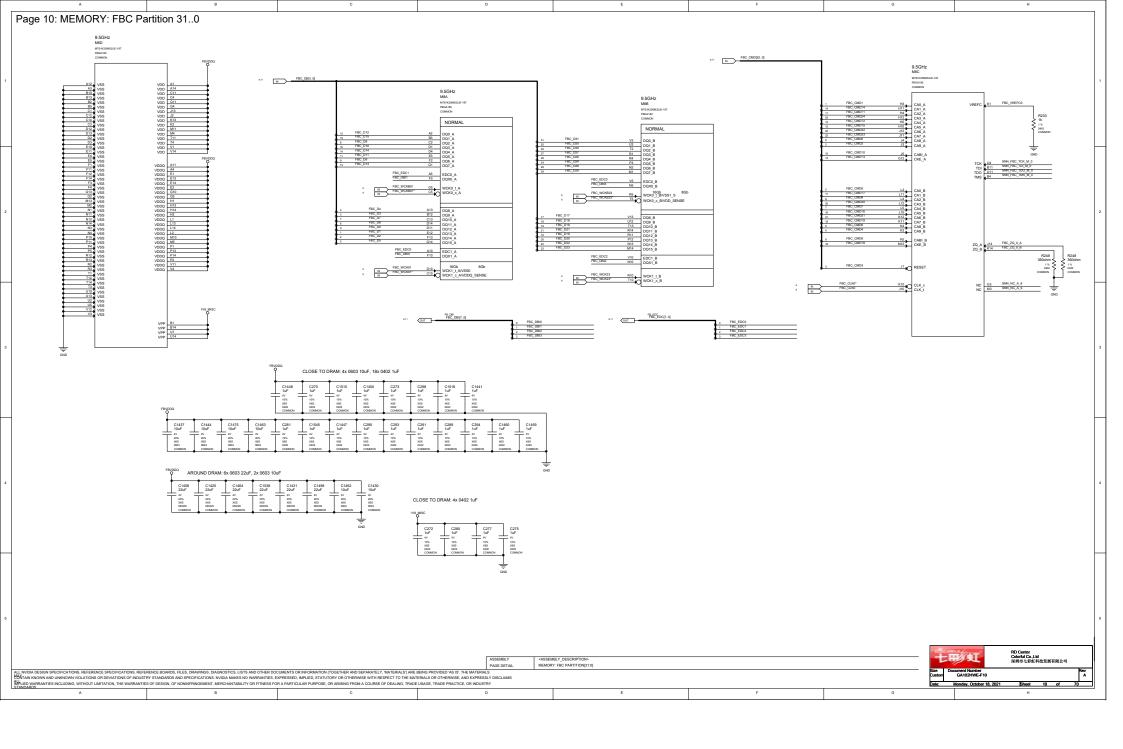


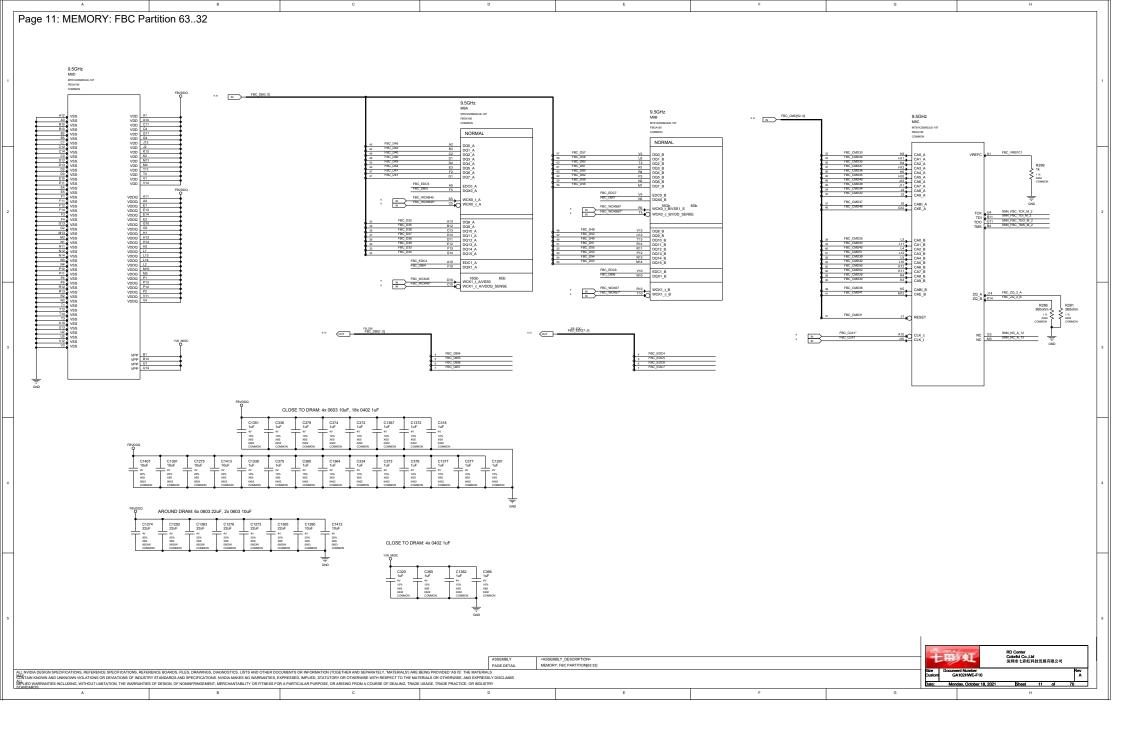


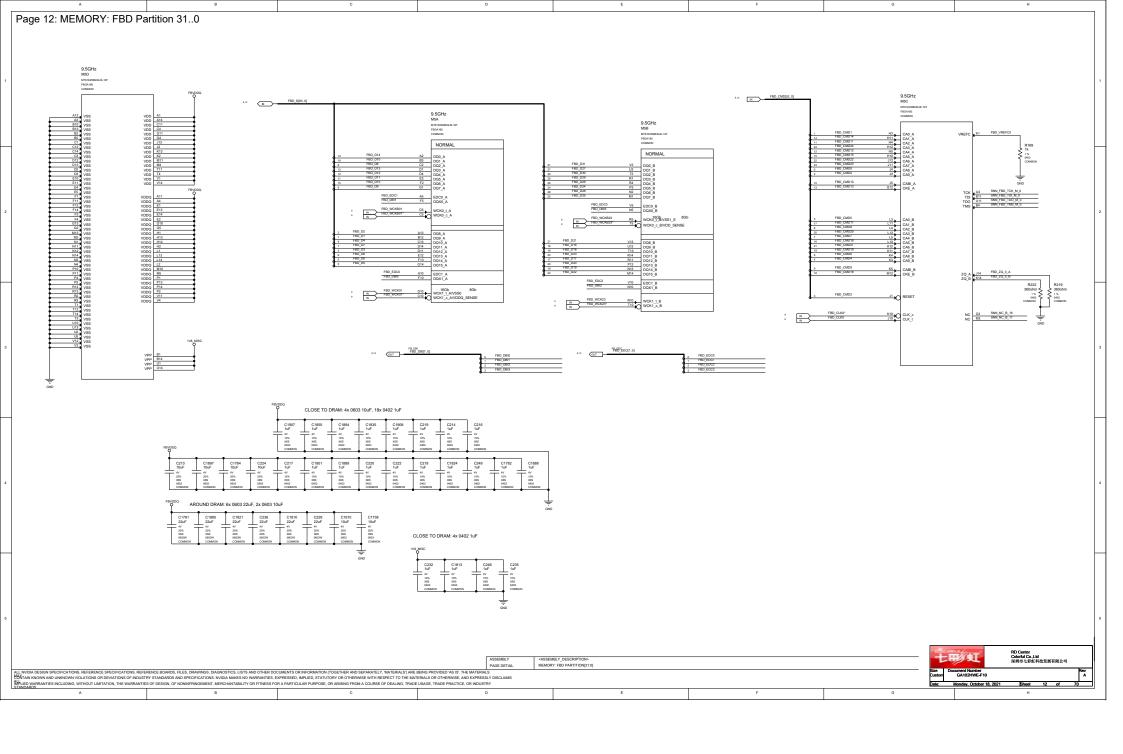


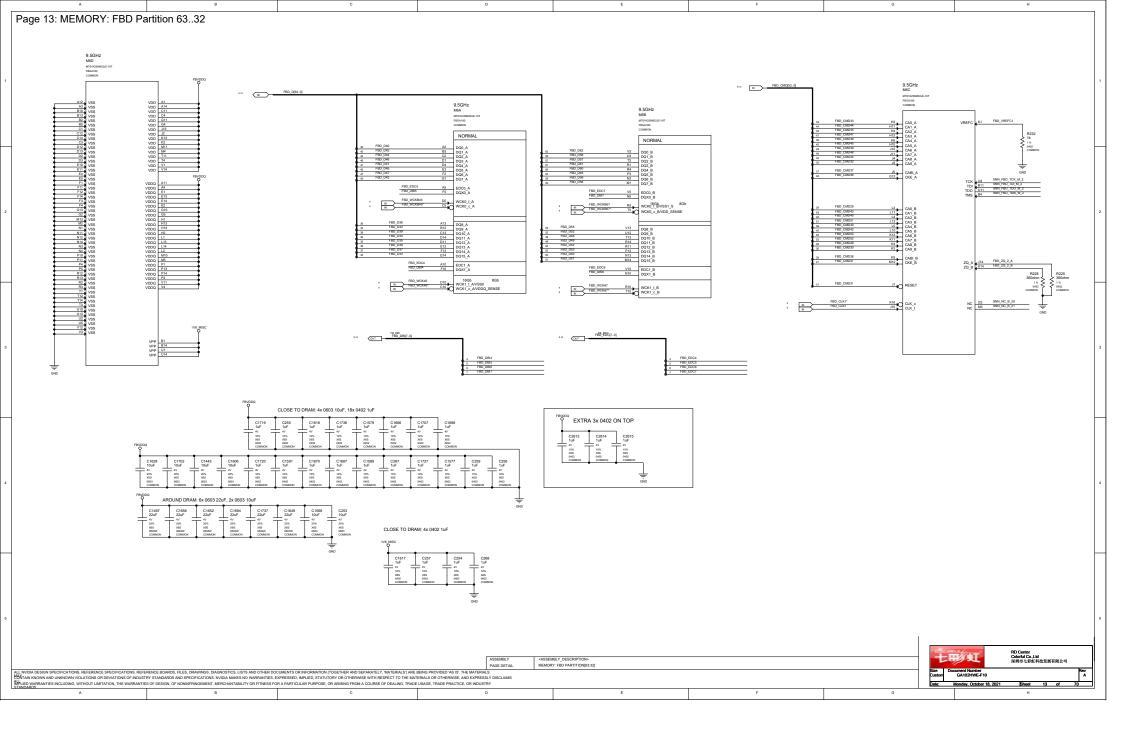


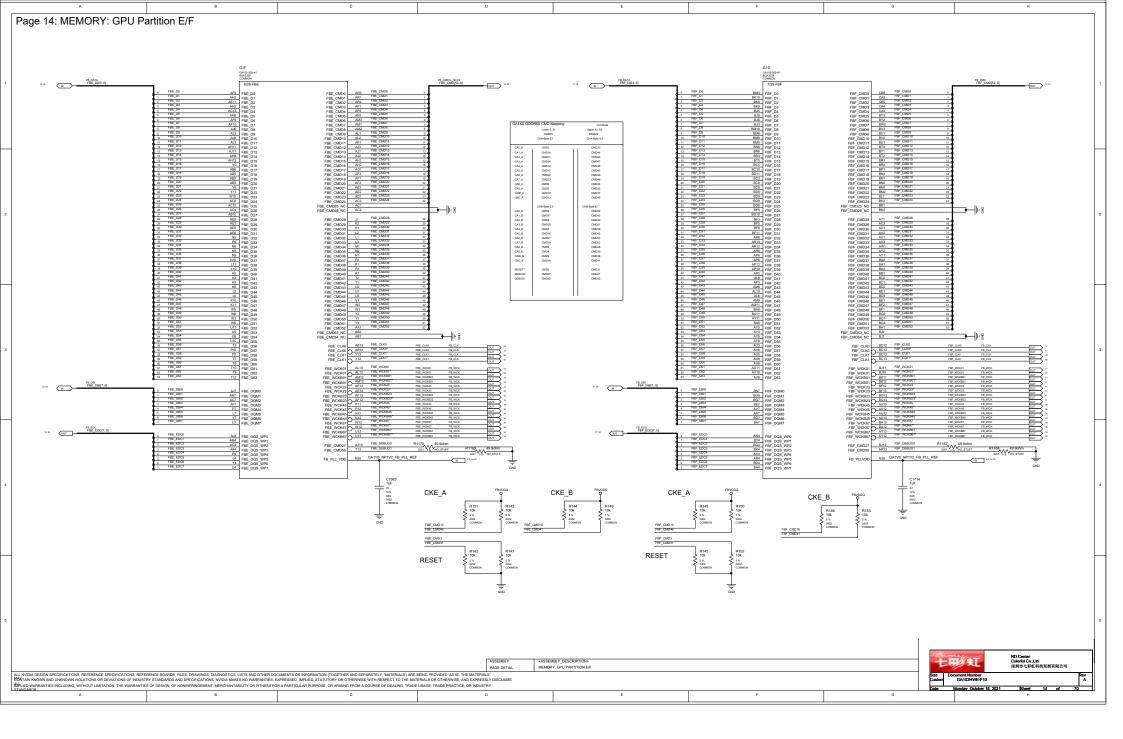


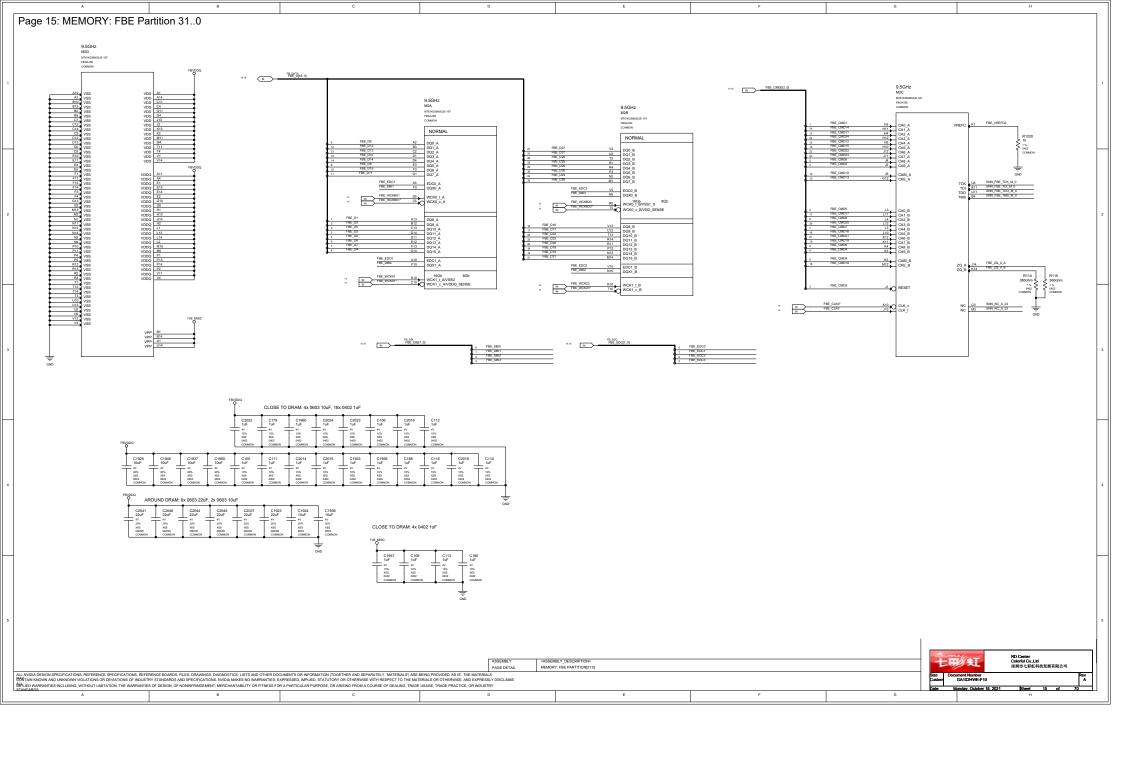


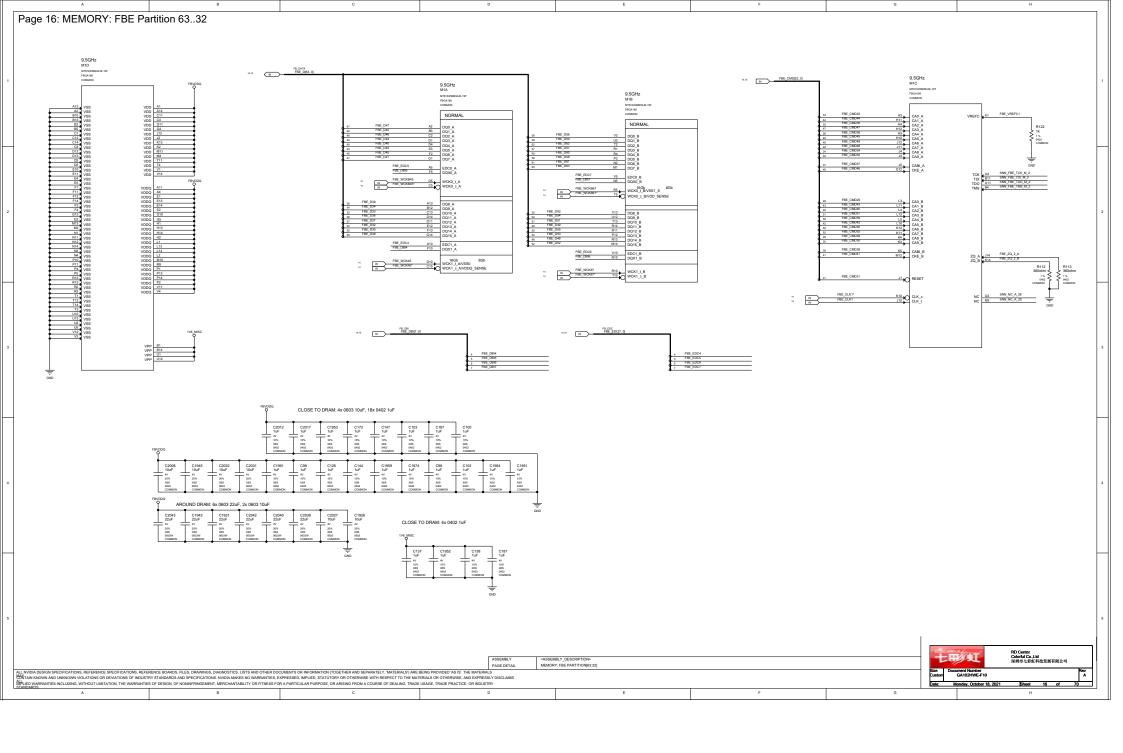


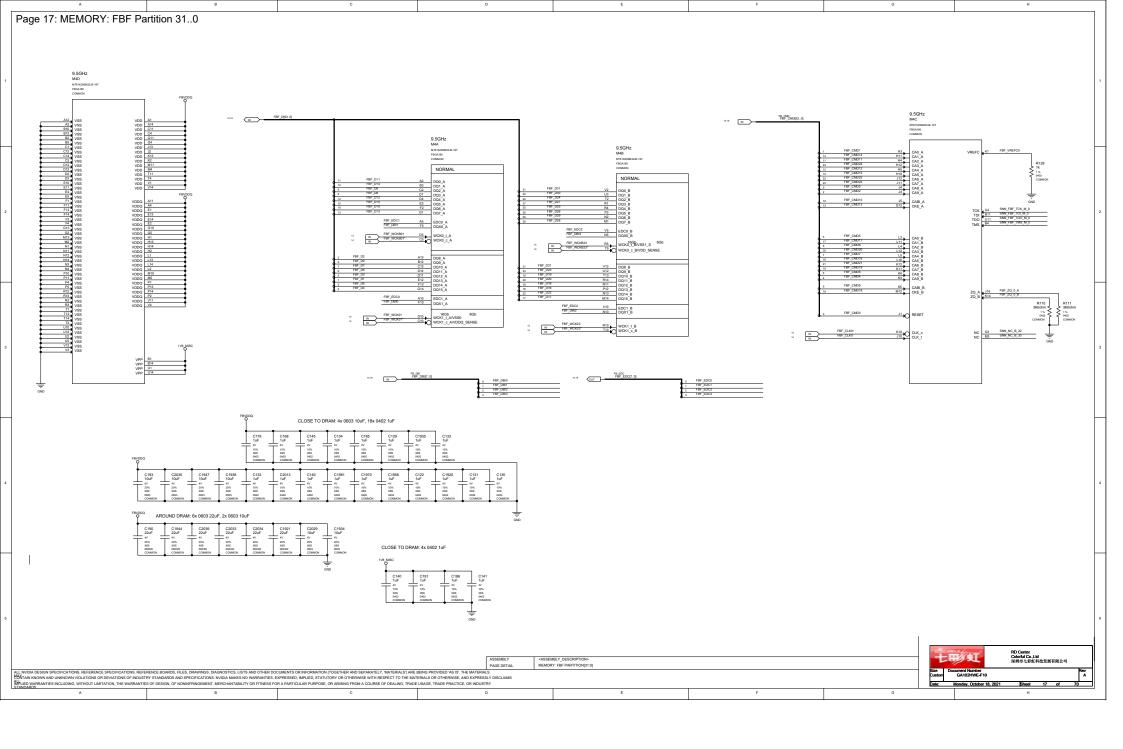


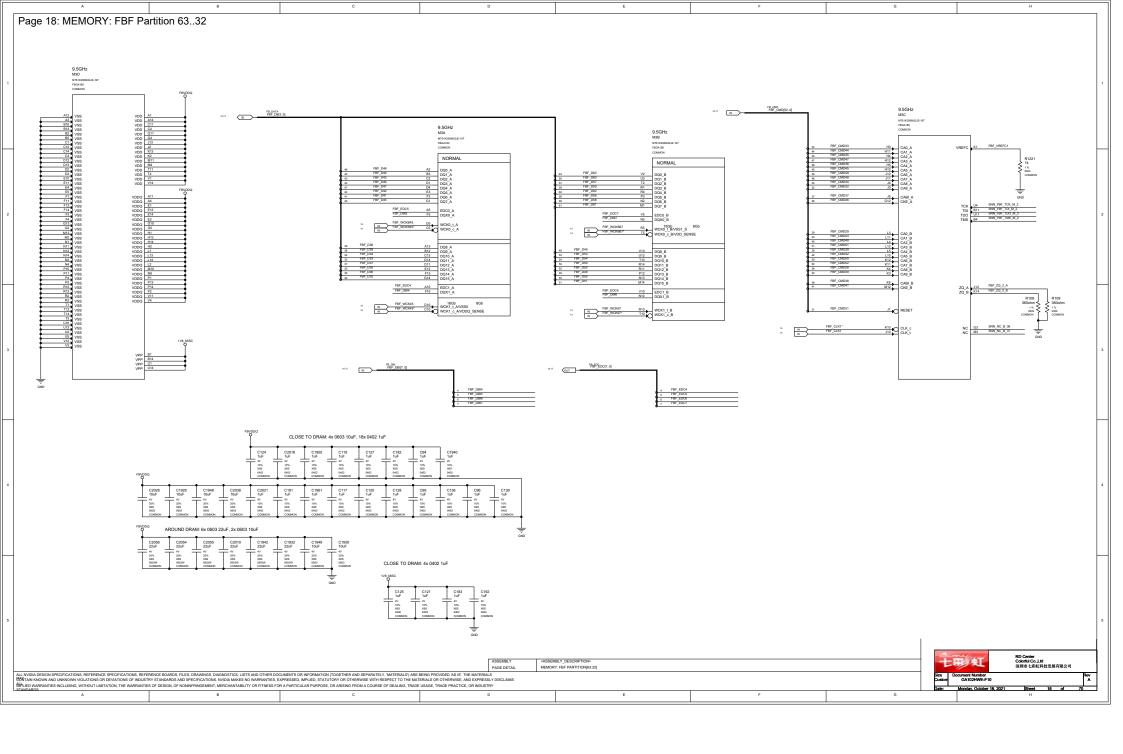






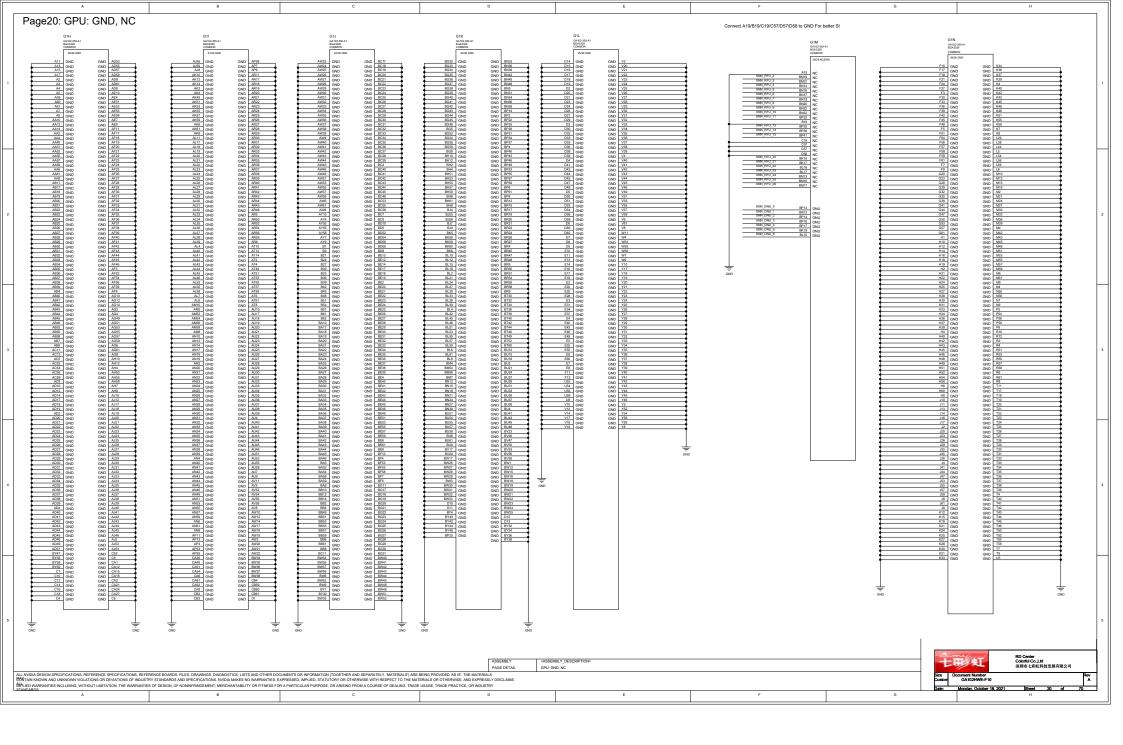


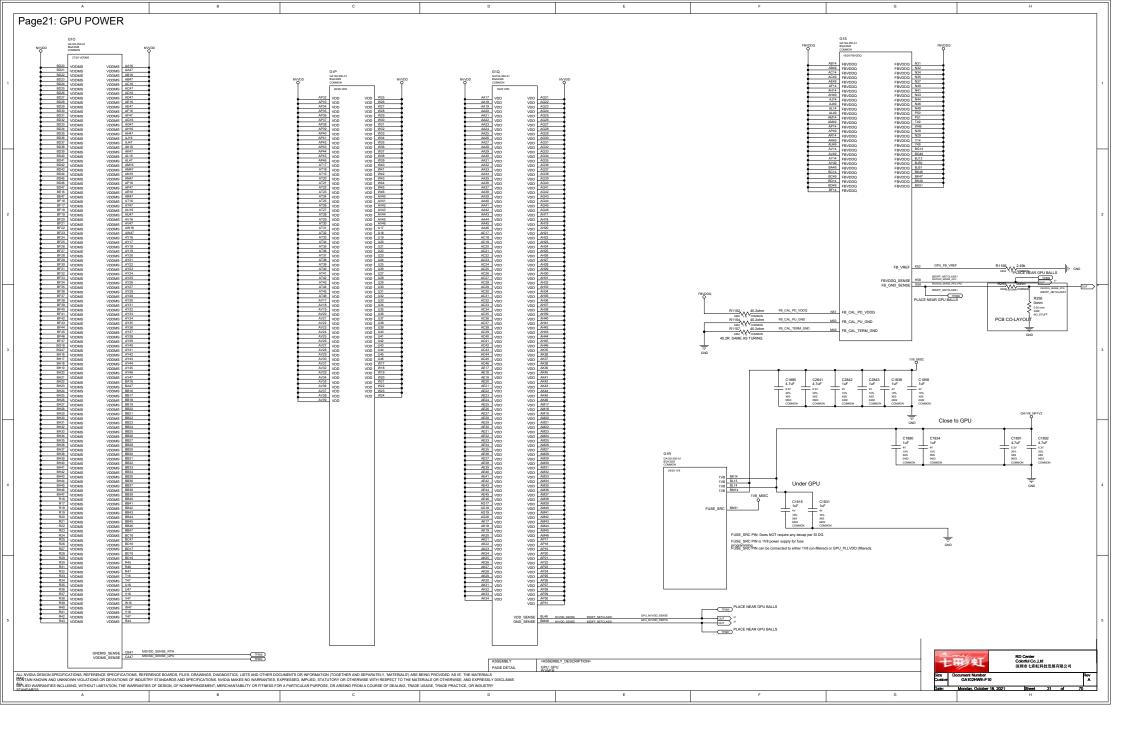


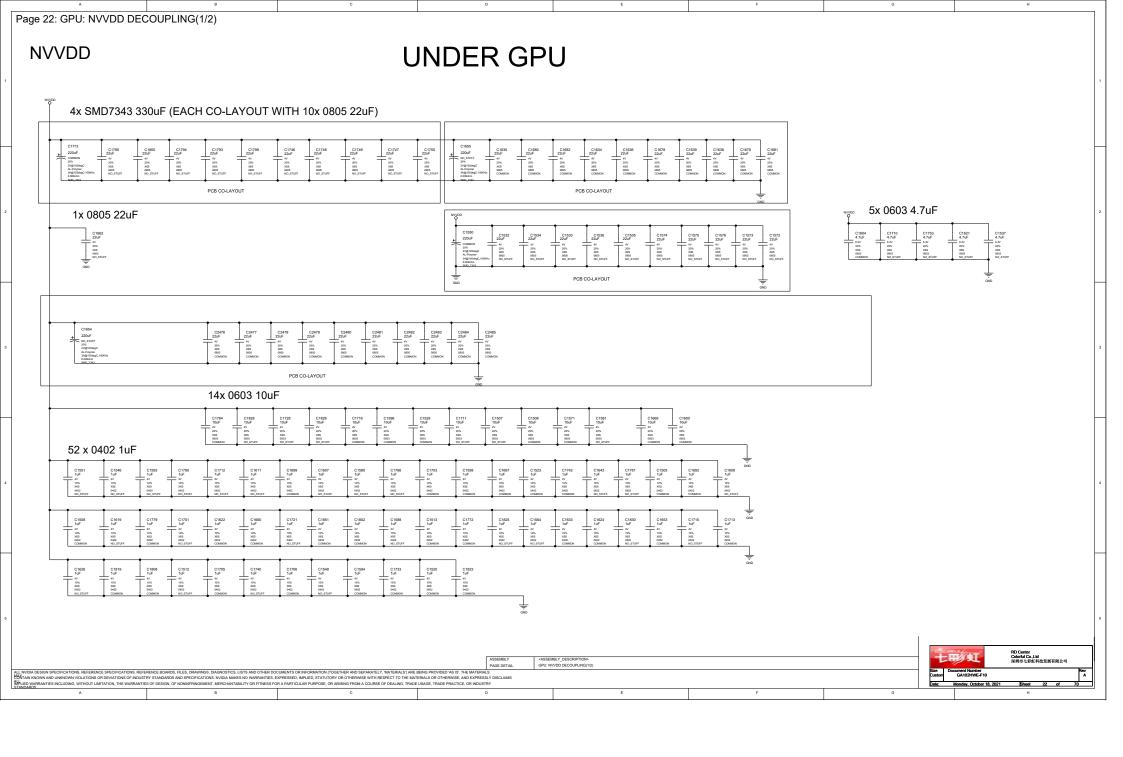


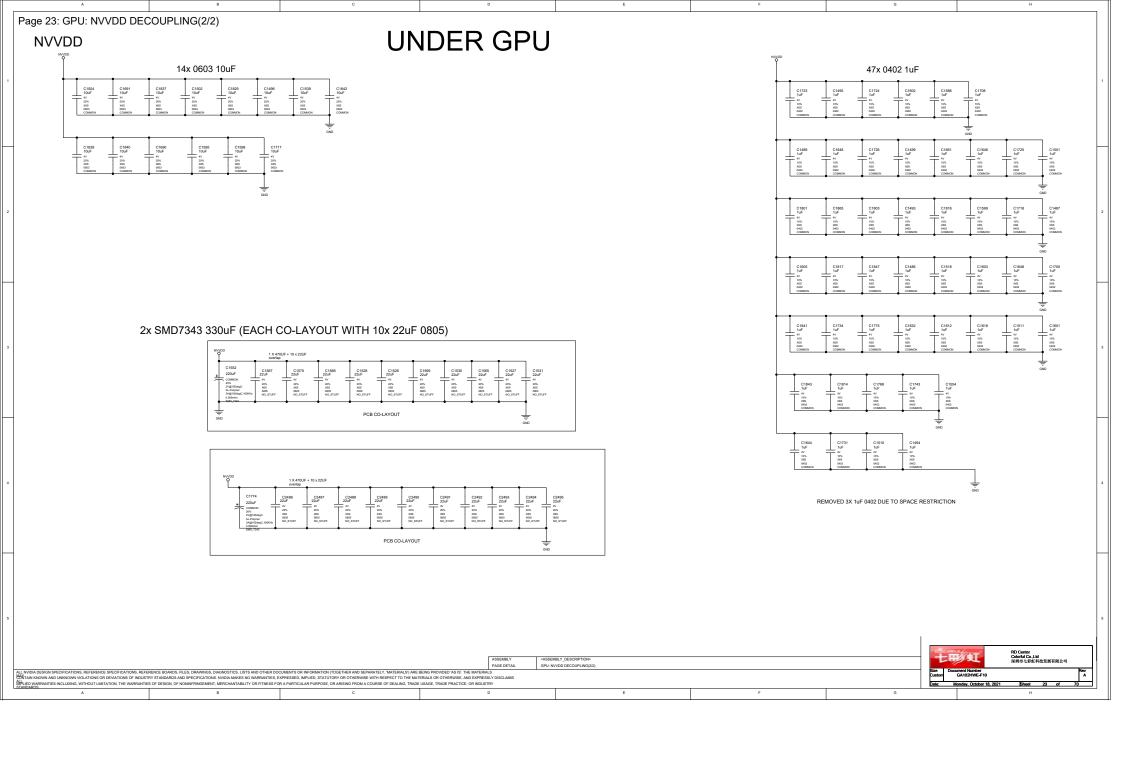
Page 19: MEMORY DECOUPLING PER SI REQUIREMENT, RESERVE MORE 0402 1UF AROUND DRAM | C2776 | C2774 | C2777 | C2777 | C2778 | C2782 | C2784 | C2786 | C2788 | C2780 | C2782 | C2784 | C2786 | C2780 | C2782 | C2785 | C2780 | C278 | C2792 | C2796 | C2800 | C2804 | C2808 | C2811 | C2814 | C2817 | C2820 | C2824 | UF | C187 | C2906 C2908 C2930 6V 4V 10% 10% 90% 10% MSS XSS XES 0402 0402 0402 0402 NO_STUFF NO_STUFF NO_STUFF PLACE UPPER/LOWER MIDDLE C2795 C2799 C2803 C2807 1uF 1uF 1uF 1uF PLACE AROUND WEST DRAM PLACE AROUND EAST DRAM

ASSEMBLY ASSEMBLY DESCRIPTIONS
PAGE DEFAIL MEMORY DECUPLING
MEMORY DECUPLING
SSEY DISCLAMS
STRIP
STRIP



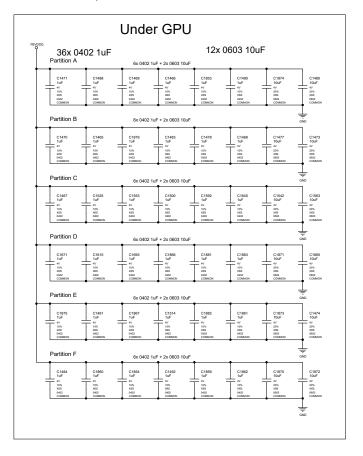


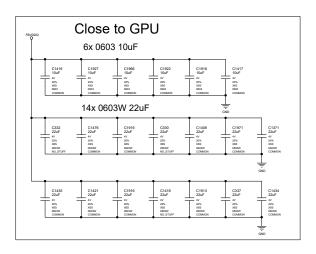


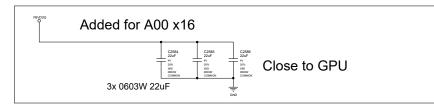


Page 24: GPU: FBVDD DECOUPLING

FBVDDQ







ASSEMBLY ASSEMBLY DESCRIPTION
PAGE DETAIL

ALL MYDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FLES, DRAWNOS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, MATERIALS) ARE BEING PROVIDED AS IST. THE MATERIALS

BOTH AND ADDRESSED SPECIFICATIONS, REFERENCE BOARDS, FLES, DRAWNOS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIALS OR OTHERWISE, AND SPRESSED, MAY DESCRIPTION IN TRANSPORT OF THE MATERIAL

