ROG-STRIX-RTX3090-O24G-WHITE (CG132BS) Repair Guide

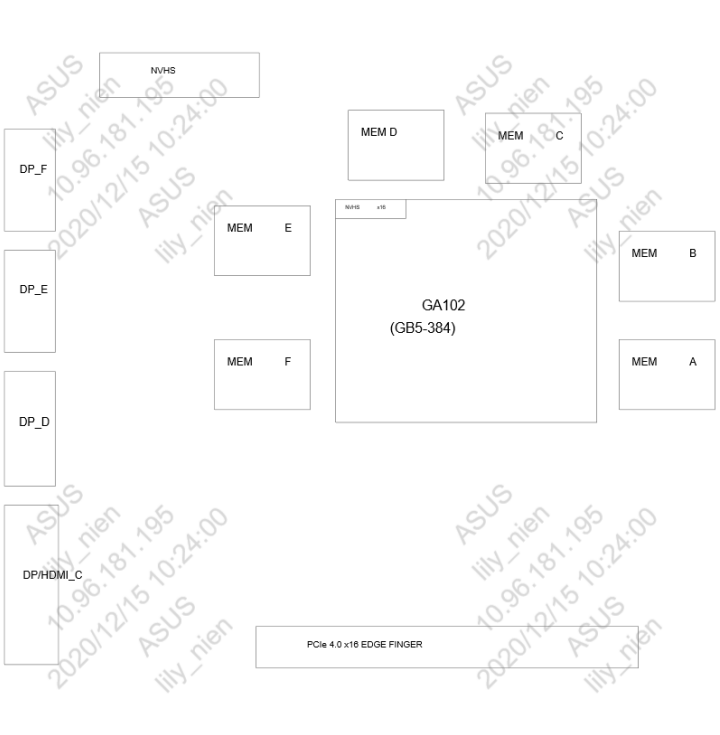
Model List

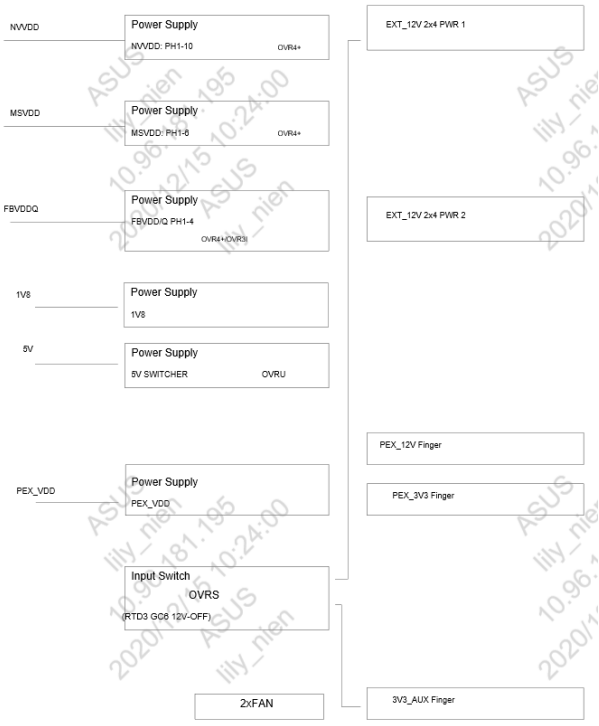
Model name	60PN	GPU	Date
ROG-STRIX-RTX3090-O24G-WHITE	YV0F96	CG132BS	2020/12/15

STANDARD APPEARANCE

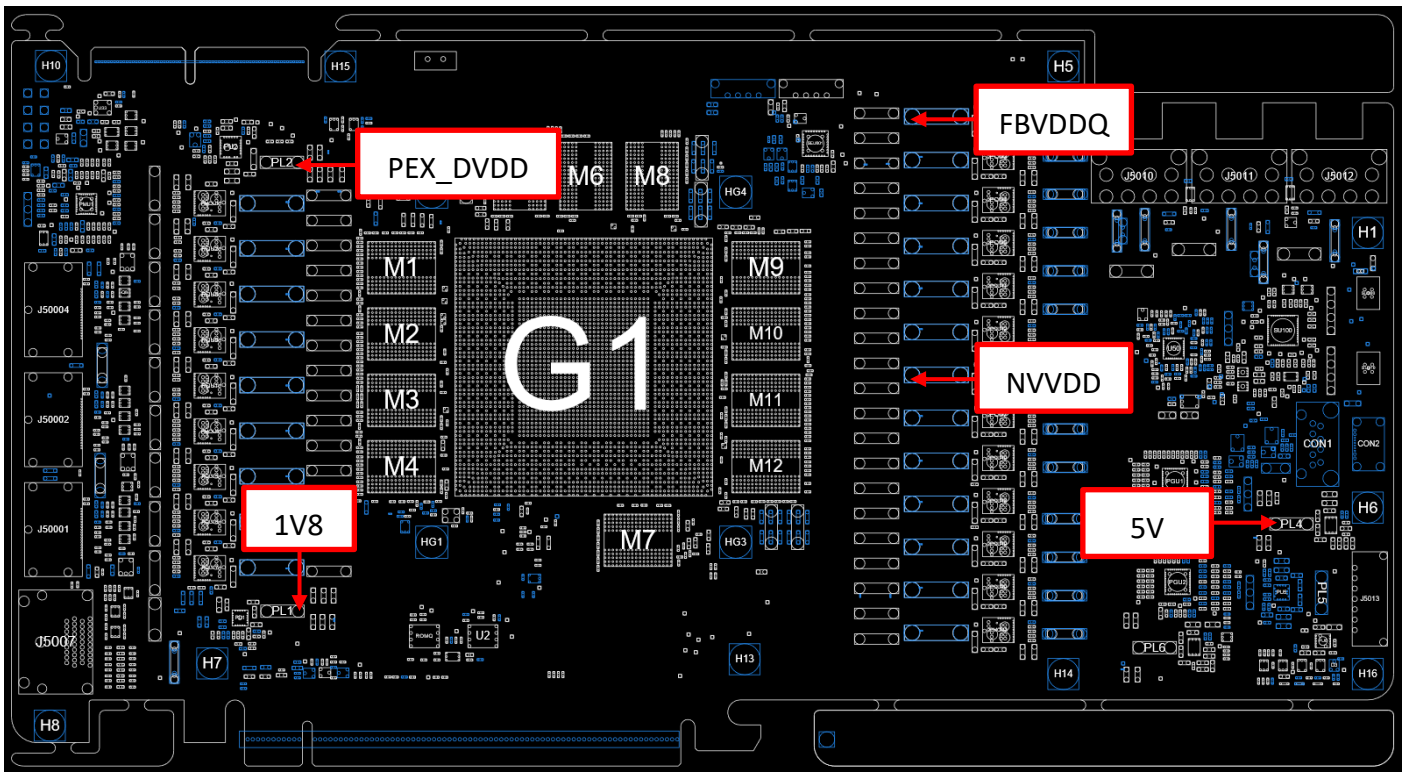
ROG-STRIX-RTX3090-O24G-WHITE

BLOCK DIAGRAM

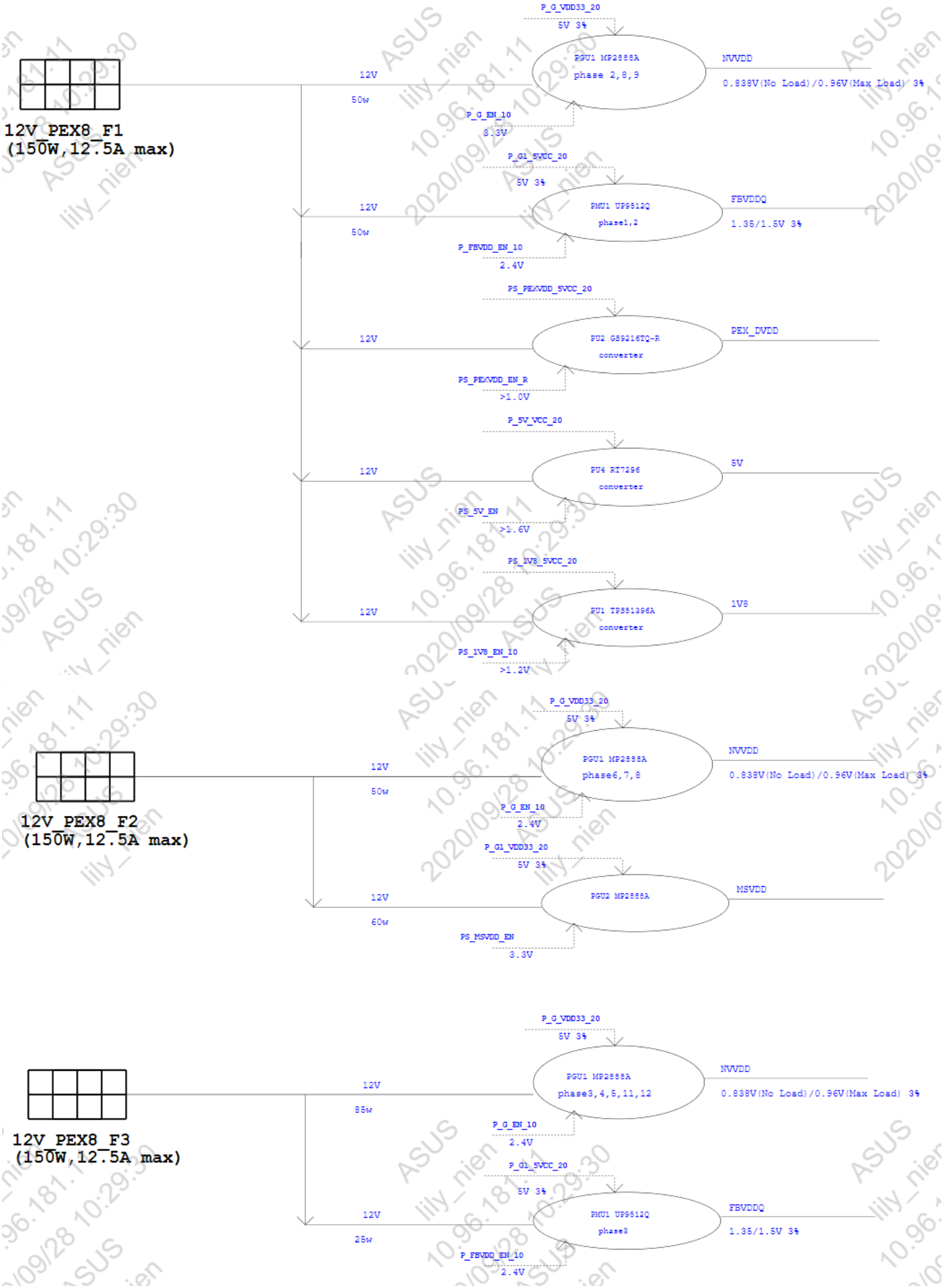


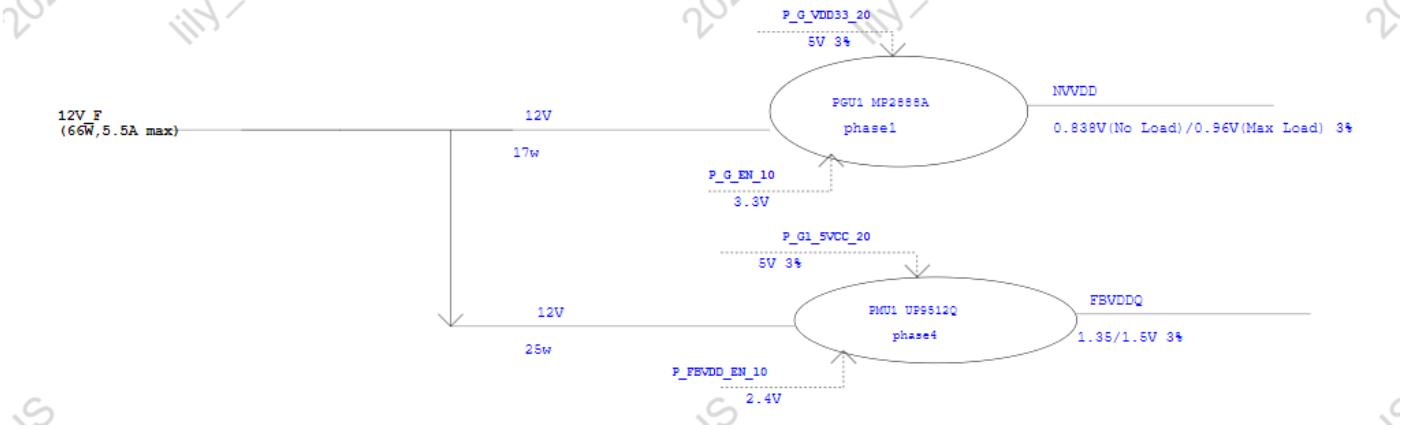


VOLTAGE MEASURE POINT

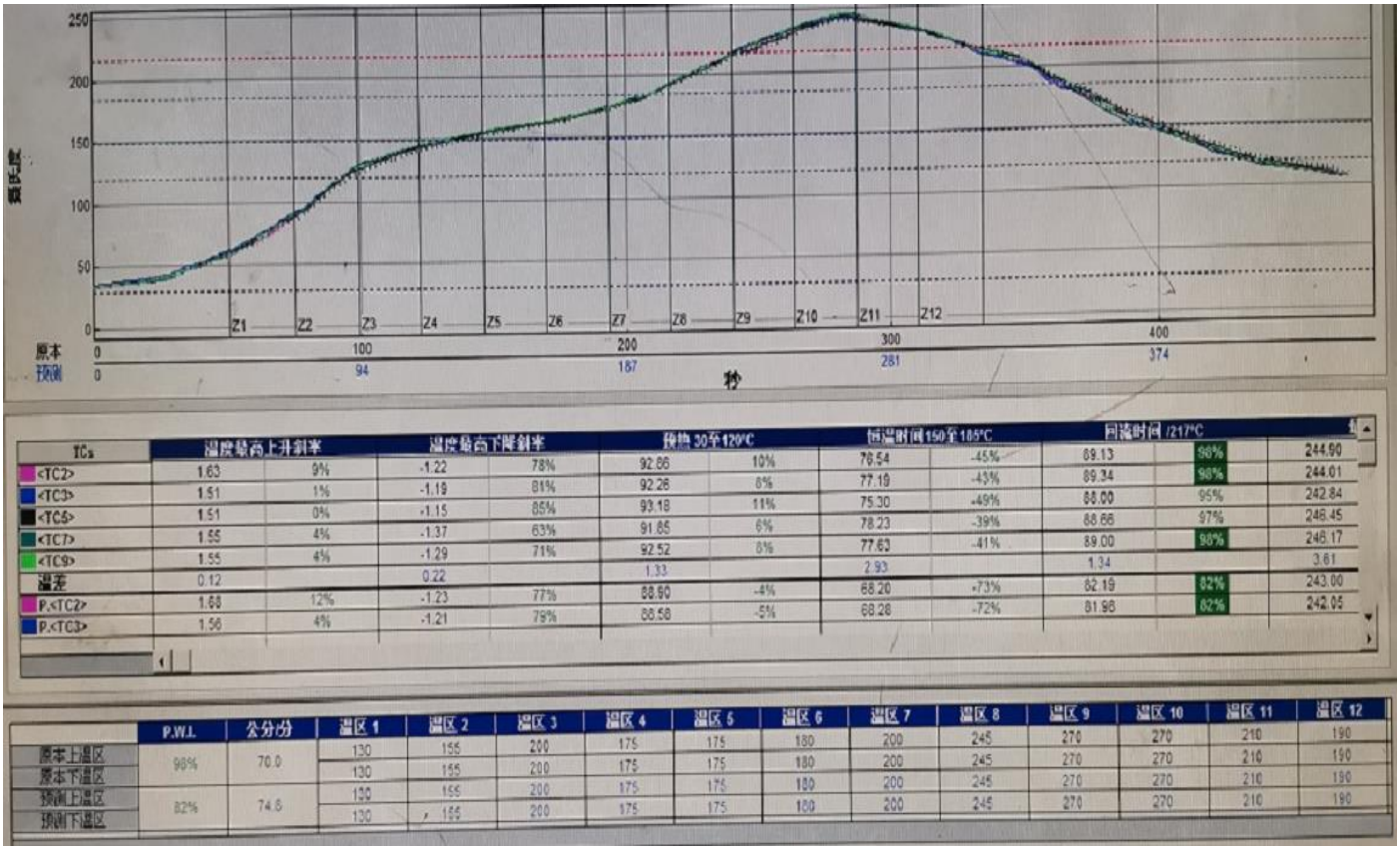


POWER FLOW


12V_PEX8_F1
(150W,12.5A max)
12V
50w
P_G_VDD33_20
5V 3%
PGU1 MP2888A
phase 2,8,9
NVVDD
0.838V(No Load)/0.96V(Max Load) 3%
P_G_EN_10
3.3V
P_G1_5VCC_20
5V 3%
PMU1 UP9512Q
phase1,2
FBVDDQ
1.35/1.5V 3%
P_FBVDD_EN_10
2.4V
PS_PEXVDD_5VCC_20
PU2 G89216TQ-R
converter
PEX_DVDD
PS_PEXVDD_EN_R
>1.0V
P_5V_VCC_20
PU4 RT7296
converter
5V
PS_5V_EN
>1.6V
PS_1V8_5VCC_20
PU1 TPS51396A
converter
1V8
PS_1V8_EN_10
>1.2V
12V_PEX8_F2
(150W,12.5A max)
12V
50w
P_G_VDD33_20
5V 3%
PGU1 MP2888A
phase6,7,8
NVVDD
0.838V(No Load)/0.96V(Max Load) 3%
P_G_EN_10
2.4V
P_G1_VDD33_20
5V 3%
PGU2 MP2888A
MSVDD
12V
60w
PS_MSVDD_EN
3.3V
12V_PEX8_F3
(150W,12.5A max)
12V
85w
P_G_VDD33_20
5V 3%
PGU1 MP2888A
phase3,4,5,11,12
NVVDD
0.838V(No Load)/0.96V(Max Load) 3%
P_G_EN_10
2.4V
P_G1_5VCC_20
5V 3%
PMU1 UP9512Q
phase3
FBVDDQ
1.35/1.5V 3%
12V
25w
P_FBVDD_EN_10
2.4V



BGA REFLOW PROFILE



TCs	温度最高上升斜率		温度最高下降斜率		预热 30至120°C		恒温时间 150至185°C		回流时间 /217°C		
<TC2>	1.63	9%	-1.22	78%	92.86	10%	78.54	-45%	89.13	98%	244.90
<TC3>	1.51	1%	-1.19	81%	92.26	8%	77.19	-43%	89.34	98%	244.01
<TC5>	1.51	0%	-1.15	85%	93.18	11%	75.30	-49%	88.00	95%	242.84
<TC7>	1.55	4%	-1.37	63%	91.85	6%	78.23	-39%	88.66	97%	246.45
<TC9>	1.55	4%	-1.29	71%	92.52	8%	77.63	-41%	89.00	98%	246.17
温差	0.12		0.22		1.33		2.93		1.34		3.61
P.<TC2>	1.68	12%	-1.23	77%	88.90	-4%	68.20	-73%	82.19	82%	243.00
P.<TC3>	1.56	4%	-1.21	79%	88.58	-5%	68.28	-72%	81.96	82%	242.05

	P.W.I.	公分/分	温区 1	温区 2	温区 3	温区 4	温区 5	温区 6	温区 7	温区 8	温区 9	温区 10	温区 11	温区 12
原本上温区	98%	70.0	130	155	200	175	175	180	200	245	270	270	210	190
原本下温区			130	155	200	175	175	180	200	245	270	270	210	190
预测上温区	82%	74.6	130	155	200	175	175	180	200	245	270	270	210	190
预测下温区			130	155	200	175	175	180	200	245	270	270	210	190