

GTX1050TI (CG411P3) Repair Guide

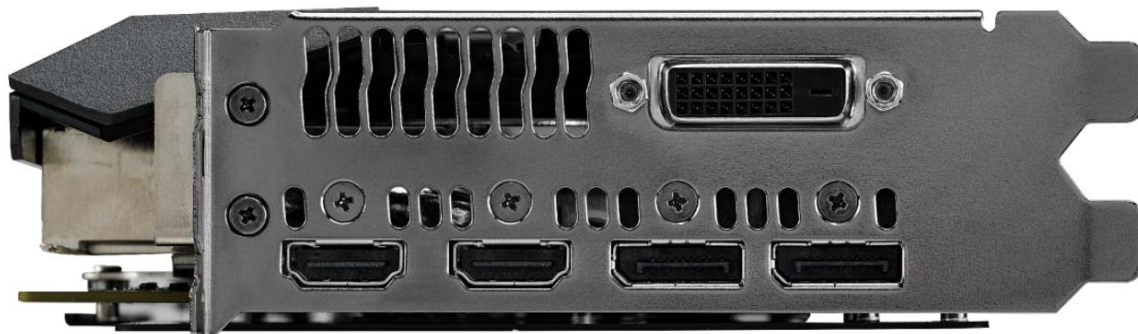
Jonas Gu

Model List

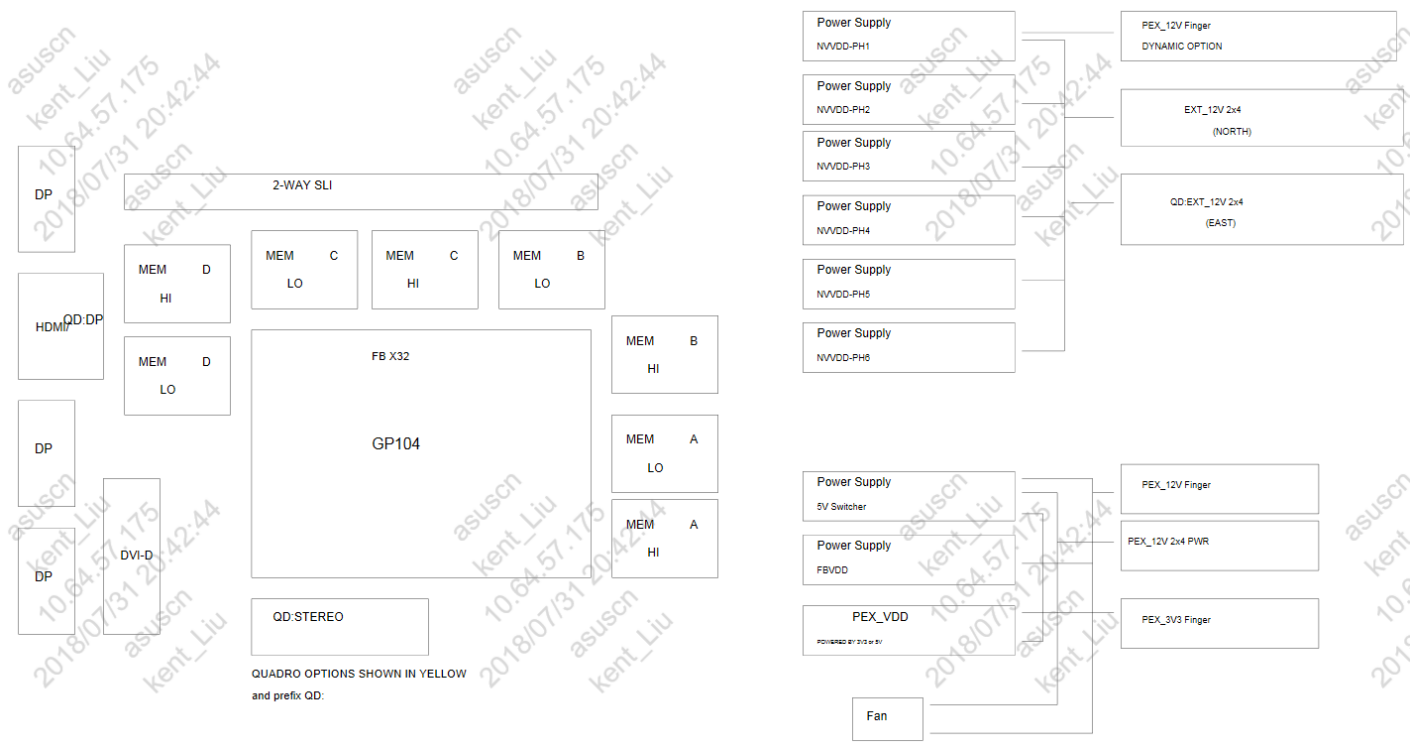
| Model name | 60PN | GPU | Date |
|--------------------------|--------|---------|-----------|
| STRIX-GTX1060-A6G-GAMING | YV09Q3 | CG411P3 | 2018/7/31 |

STANDARD APPEARANCE



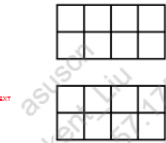


BLOCK DIAGRAM

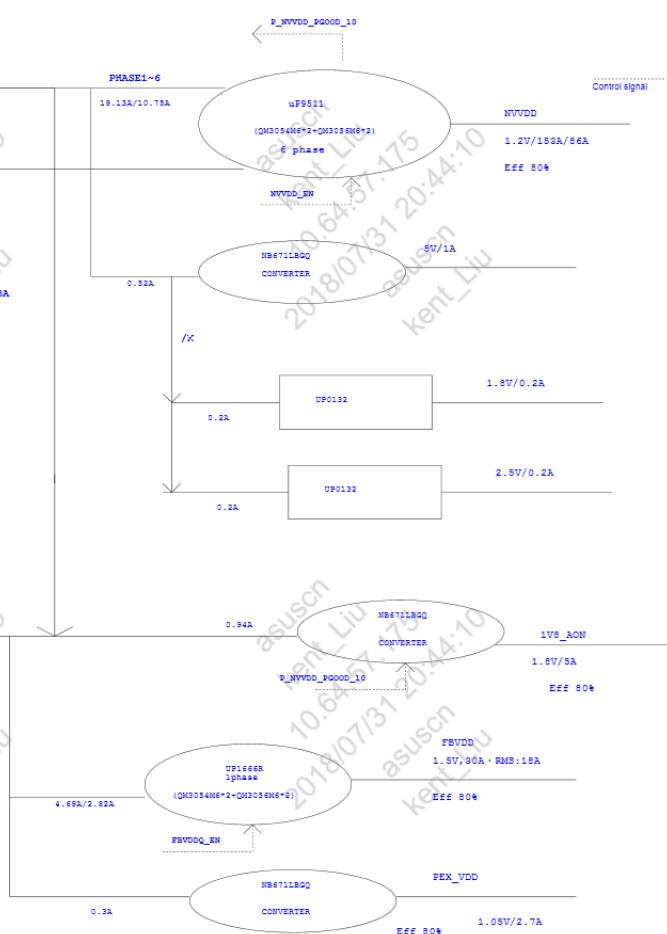


POWER FLOW

12V PEX8 F2
(150W, 12.5A max)

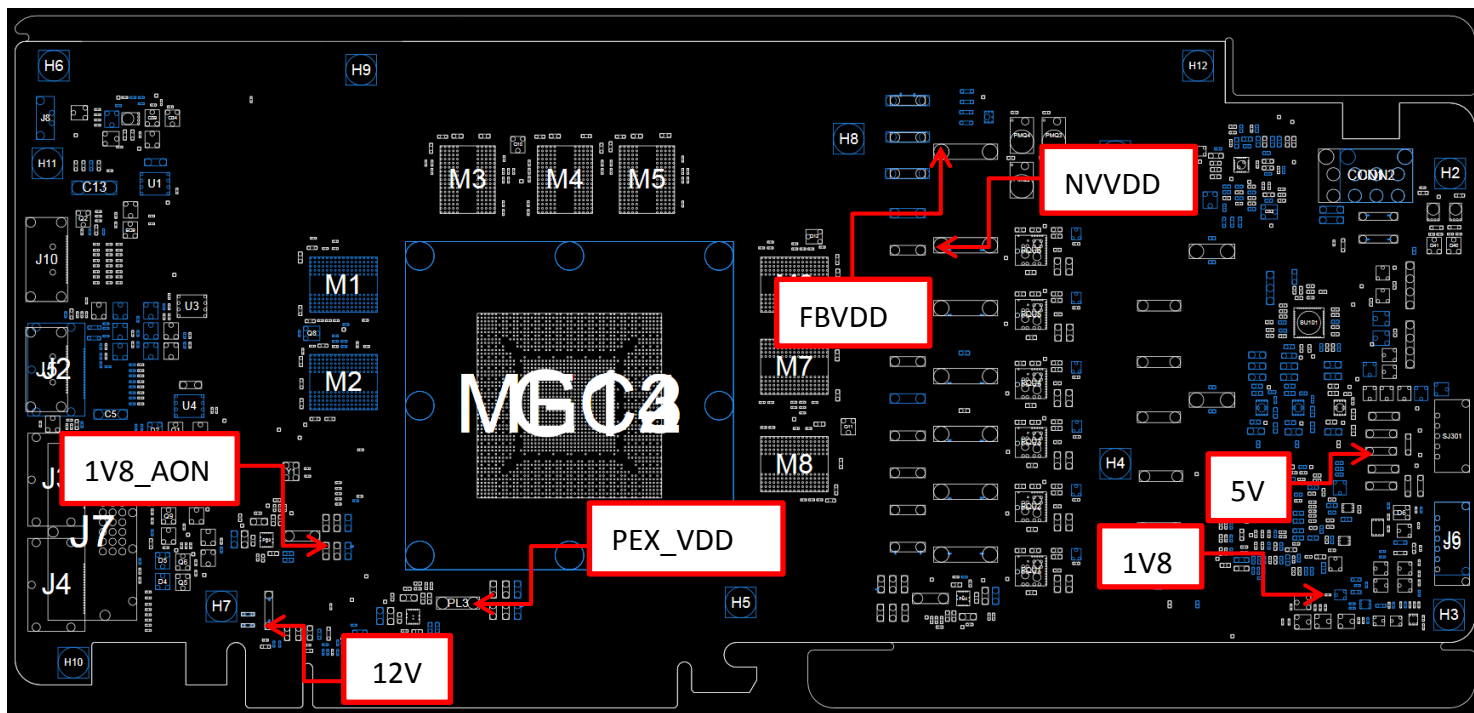


12V PEX6 F
(150W, 6.25A max)



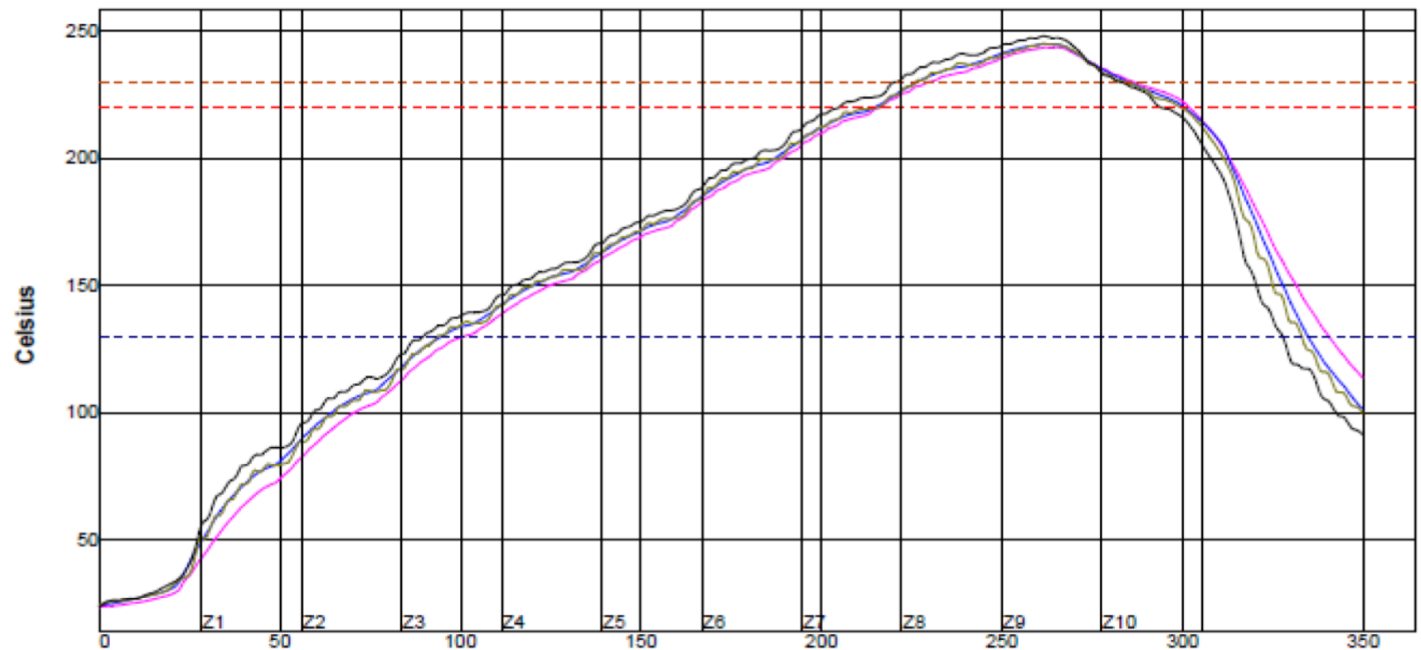
$I_{(max)} < 15A, I_{ocp} = 3 * I_{(max)}$
 $15A < I_{(max)} < 50A, I_{ocp} = 2.5 * I_{(max)}$
 $50A < I_{(max)} < 80A, I_{ocp} = 2 * I_{(max)}$
 $80A < I_{(max)}, I_{ocp} = 1.5 * I_{(max)}$

VOLTAGE MEASURE POINT



BGA REFLOW PROFILE

| Setpoints (Celsius) | | | | | | | | | | |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Zone | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Top | 100 | 125 | 150 | 170 | 190 | 215 | 235 | 250 | 255 | 200 |
| Bottom | 100 | 125 | 150 | 170 | 190 | 215 | 235 | 250 | 255 | 200 |
| Conveyor Speed (inch/min): 26.00 | | | | | | | | | | |



| PWI= 86% | Max Rising Slope | | Max Falling Slope | | Preheat 130-220C | | Reflow Time /220C | | Peak Temp | | Tot Time /230C | |
|------------|------------------|------|-------------------|------|------------------|-----|-------------------|-----|-----------|-----|----------------|-----|
| U4 CEN - 1 | 1.80 | -28% | -2.88 | 18% | 115.35 | 71% | 85.97 | 84% | 243.84 | 35% | 67.38 | 43% |
| M2 - 1 | 2.07 | -17% | -3.28 | -13% | 120.00 | 78% | 85.84 | 83% | 245.08 | 51% | 68.78 | 47% |
| J7 - 2 | 2.15 | -14% | -3.41 | -21% | 121.51 | 80% | 84.73 | 78% | 245.34 | 53% | 68.12 | 46% |
| L7 - 2 | 2.35 | -8% | -3.75 | -38% | 115.18 | 71% | 88.37 | 85% | 248.28 | 83% | 69.38 | 58% |
| Delta | 0.55 | | 1.08 | | 6.35 | | 4.85 | | 4.44 | | 8.00 | |