

PH-GTX1650S-4G

(CG161PI)

Repair Guide

Model List

| Model name | 60PN | GPU | Date |
|----------------|--------|---------|-----------|
| PH-GTX1650S-4G | YV0E41 | CG161PI | 2019/12/9 |

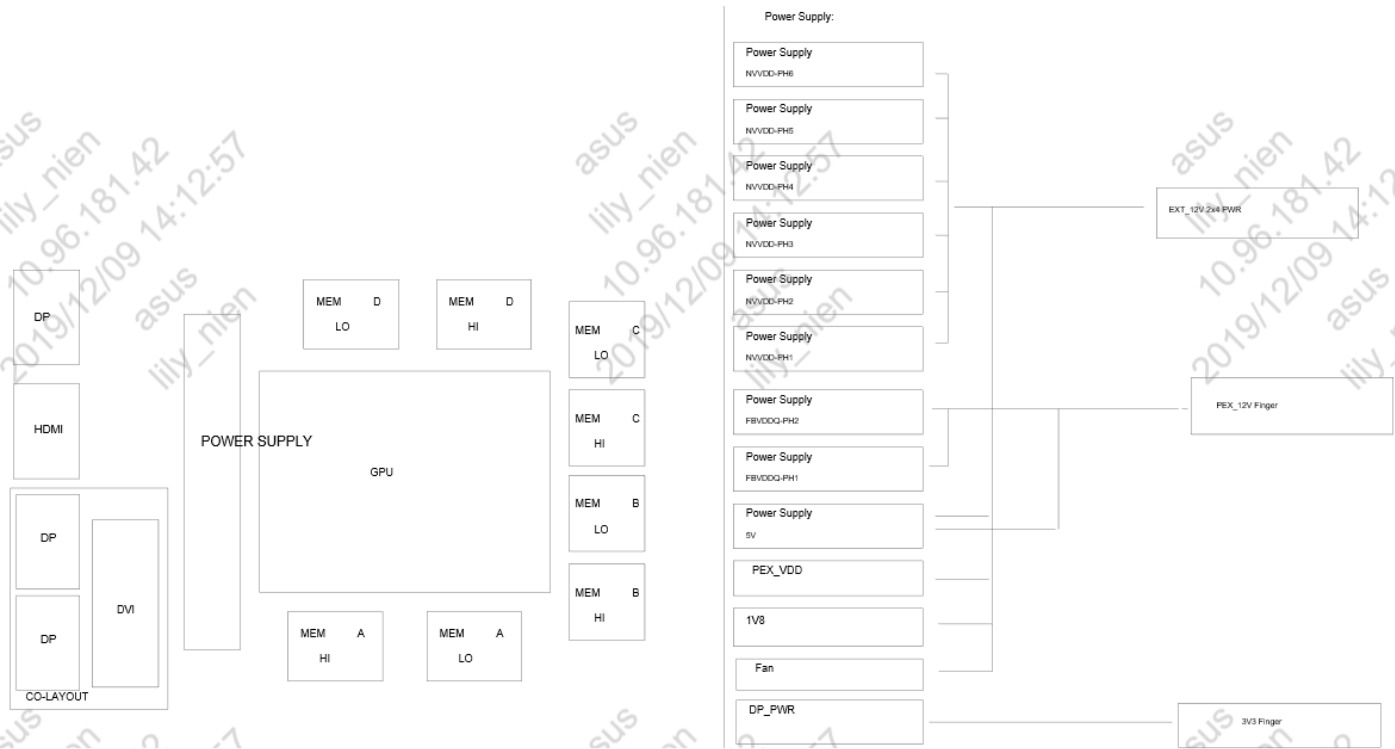
STANDARD APPEARANCE

PH-GTX1650S-4G

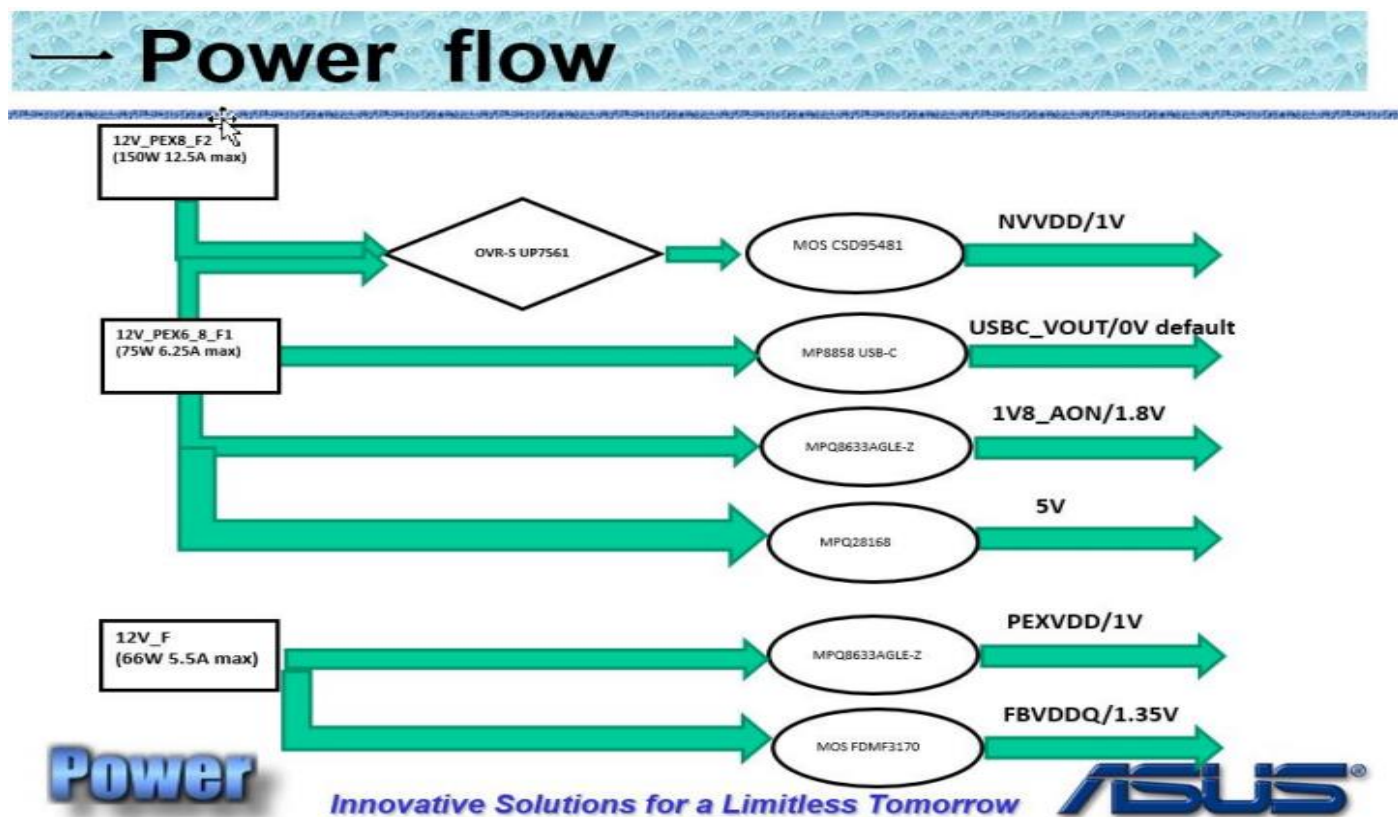




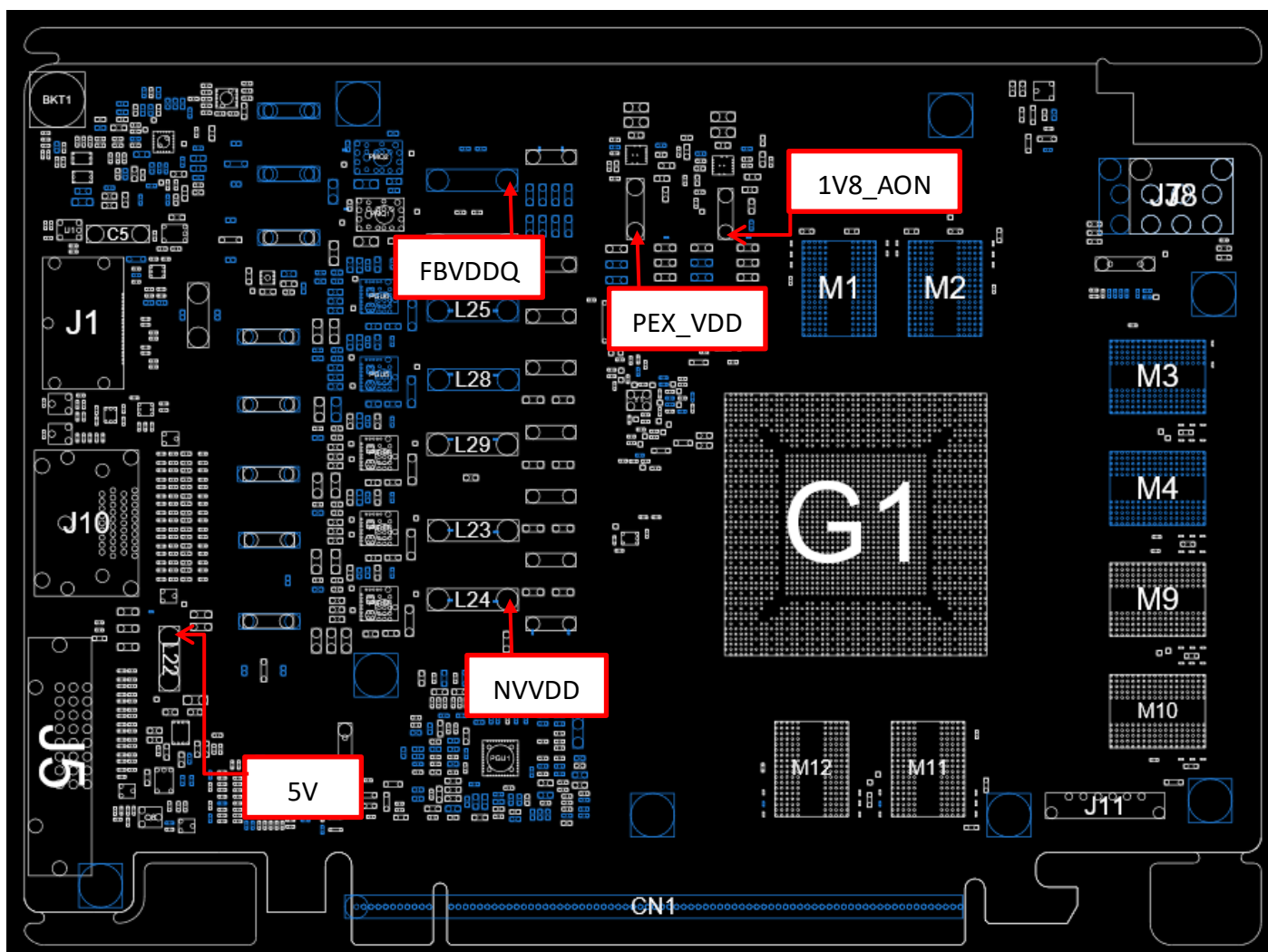
BLOCK DIAGRAM



POWER FLOW

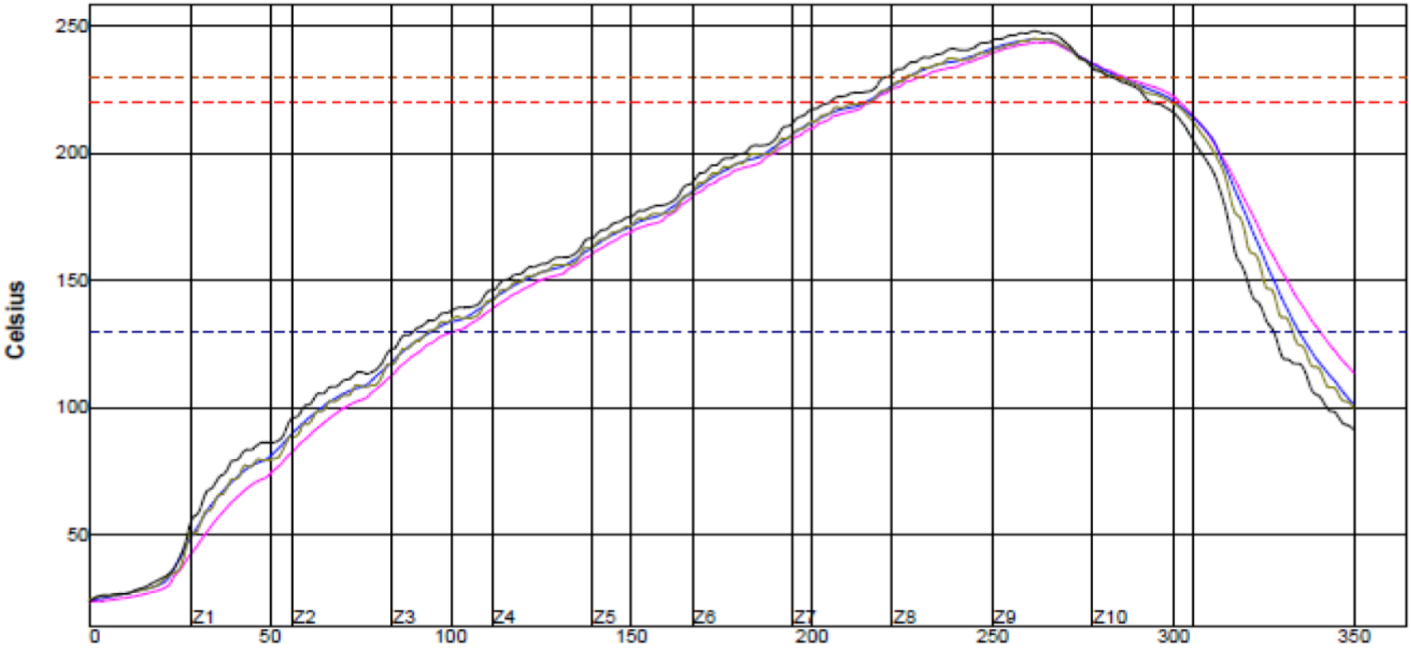


VOLTAGE MEASURE POINT



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% | 57.38 | 43% |
| M2 - 1 | 2.07 | -17% | -3.28 | -13% | 120.00 | 78% | 85.84 | 83% | 245.08 | 51% | 58.78 | 47% |
| U7 - 2 | 2.15 | -14% | -3.41 | -21% | 121.51 | 80% | 84.73 | 79% | 245.34 | 53% | 58.12 | 45% |
| U7 - 2 | 2.35 | -8% | -3.75 | -38% | 115.18 | 71% | 88.37 | 85% | 248.28 | 83% | 59.38 | 58% |
| Delta | 0.55 | | 1.08 | | 6.35 | | 4.85 | | 4.44 | | 8.00 | |