PH-GTX1650S-O4G   (CG161PI)

Repair Guide

Model List

Model name	60PN	GPU	Date
PH-GTX1650S-O4G	YV0E40	CG161PI	2019/12/9

STANDARD APPEARANCE

PH-GTX1650S-O4G

BLOCK DIAGRAM

Power Supply:

Power Supply NVVDD-PH6	
Power Supply NVVDD-PH5	
Power Supply NVVDD-PH4	EXT_12V 2x4 PWR
Power Supply NVVDD-PH3	
Power Supply NVVDD-PH2	
Power Supply NVVDD-PH1	
Power Supply FBVDDQ-PH2	PEX_12V Finger
Power Supply FBVDDQ-PH1	
Power Supply 5V	
PEX_VDD	
1V8	
Fan	
DP_PWR	3V3 Finger

DP

HDMI

DP

DVI

DP

CO-LAYOUT

POWER SUPPLY

GPU

MEM D LO

MEM D HI

MEM C LO

MEM C HI

MEM B LO

MEM B HI

MEM A HI

MEM A LO
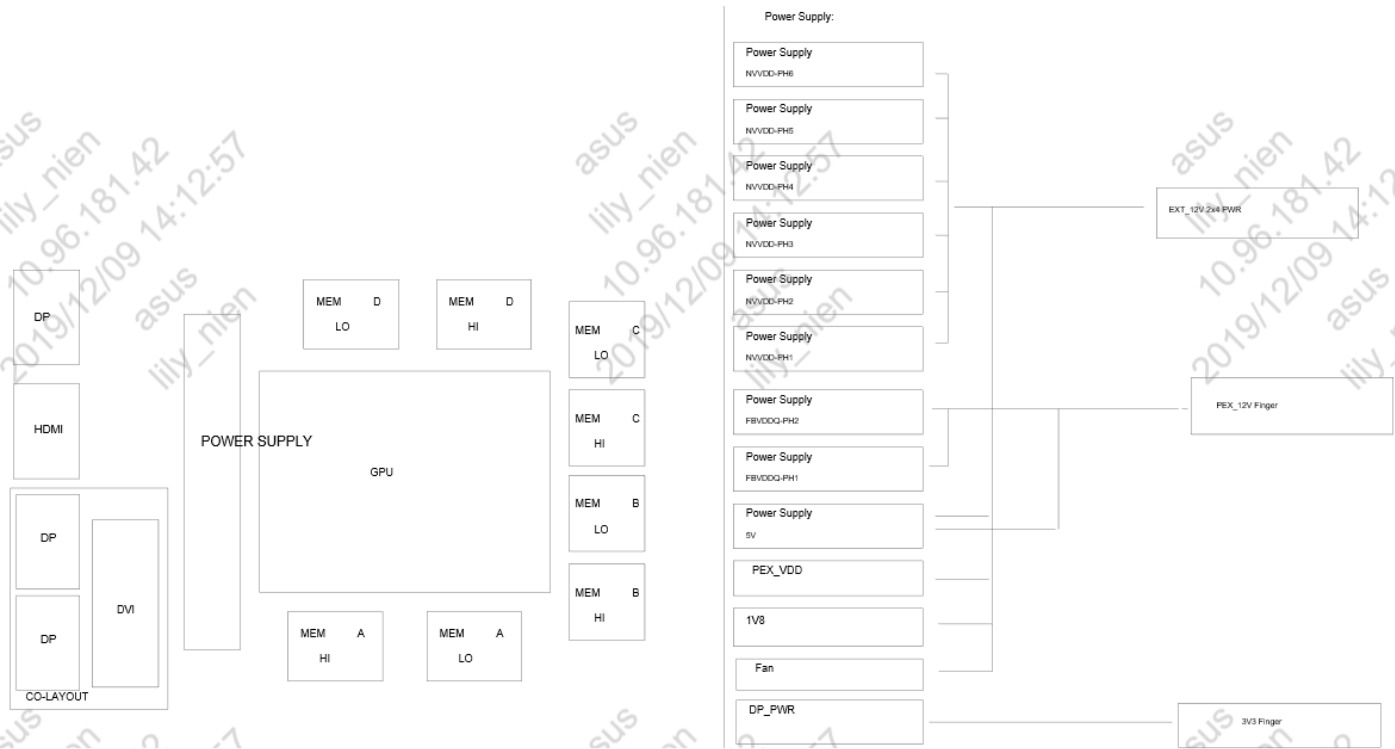
POWER FLOW
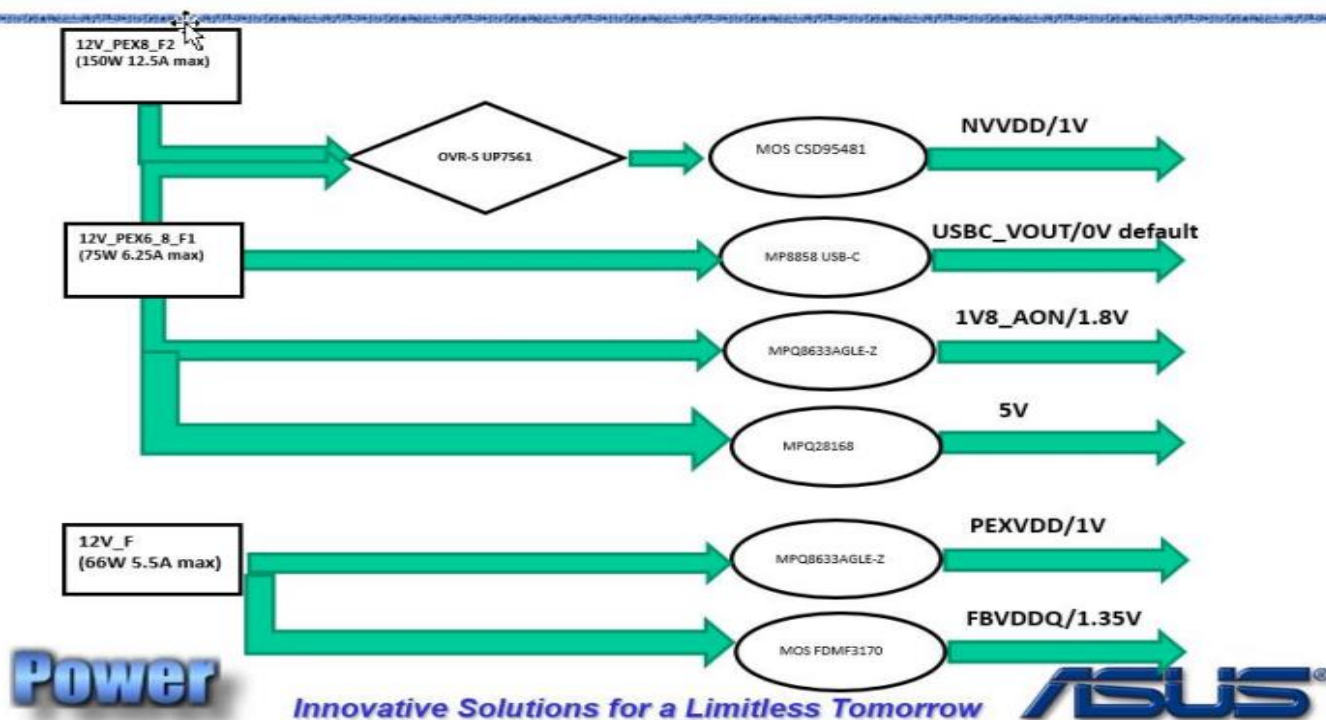
VOLTAGE MEASURE POINT
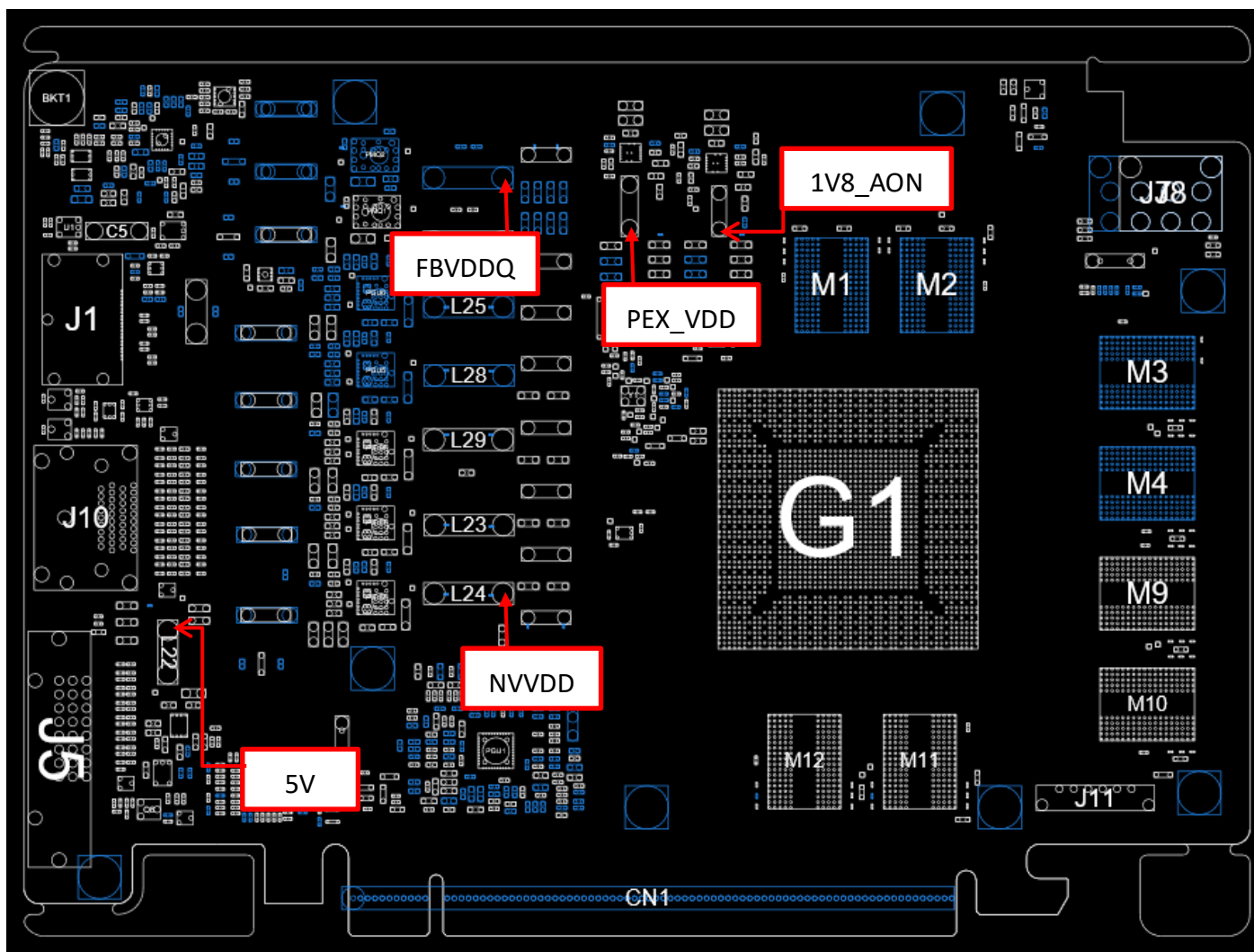
BGA REFLOW PROFILE

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									
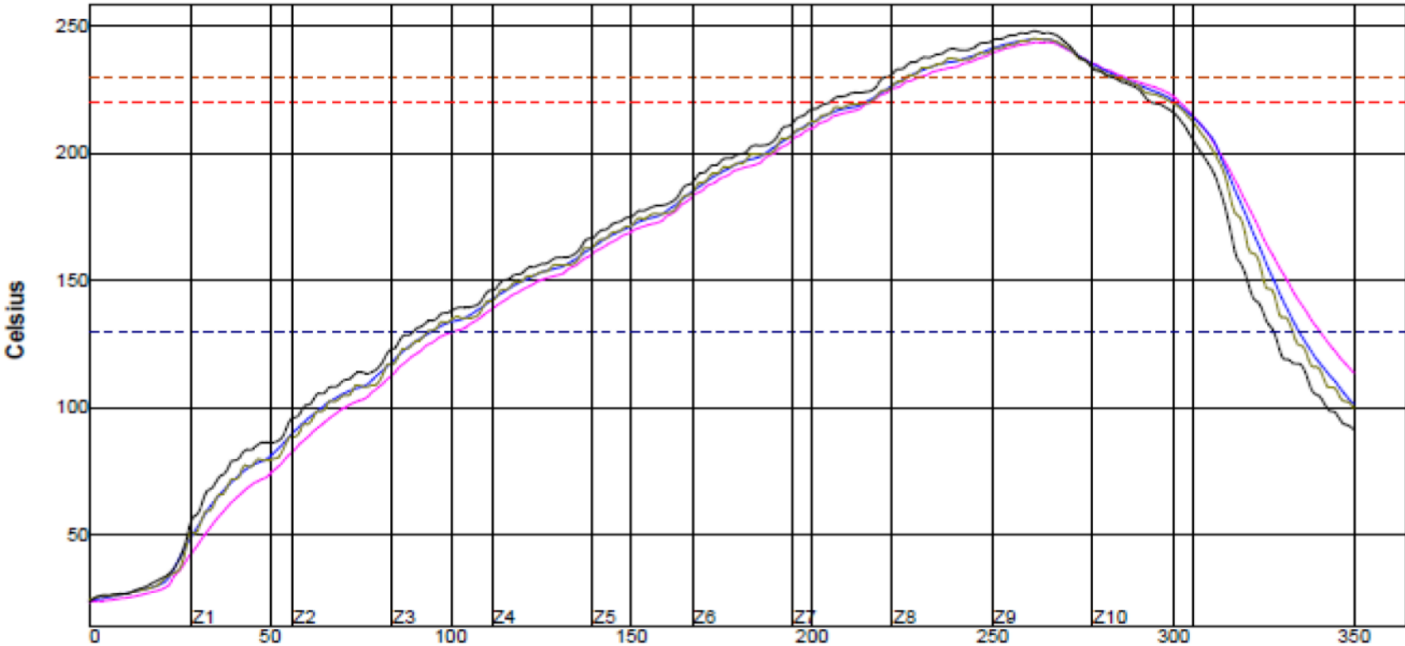
PWI= 95%	Max Rising Slope		Max Falling Slope		Preheat 130-220C		Reflow Time /220C		Peak Temp		Tot Time /230C	
U4 CEN - 1	1.80	-28%	-2.98	16%	116.36	71%	86.97	84%	243.84	38%	67.38	43%
M2 - 1	2.07	-17%	-3.28	-13%	120.00	78%	86.84	83%	245.06	51%	68.78	47%
J7 - 2	2.15	-14%	-3.41	-21%	121.51	80%	84.73	78%	245.34	53%	68.12	46%
L7 - 2	2.35	-8%	-3.75	-38%	115.16	71%	88.37	95%	248.28	83%	93.38	68%
Delta	0.55		1.06		6.35		4.65		4.44		6.00	