ENGTX570 (C1263P) Repair Guide

Feb/15/2011
Medison_Huang
CSC-GRMA

ASUS Model name	ENGTX570/2DIS/1280MD5/C1263P
ASUS P/N	80-C1CQ60-X0A01
Graphics Engine	NVIDIA GeForce GTX 570
GPU P/N	02G190018701
Bus Standard	PCI Express 2.0
Video Memory	GDDR5 1280MB
Engine Clock	742 MHz
Memory Clock	3800 MHz (950 MHz GDDR5)
RAMDAC	400 MHz
Memory Interface	320-bit

Page1. Basic Information about the Model

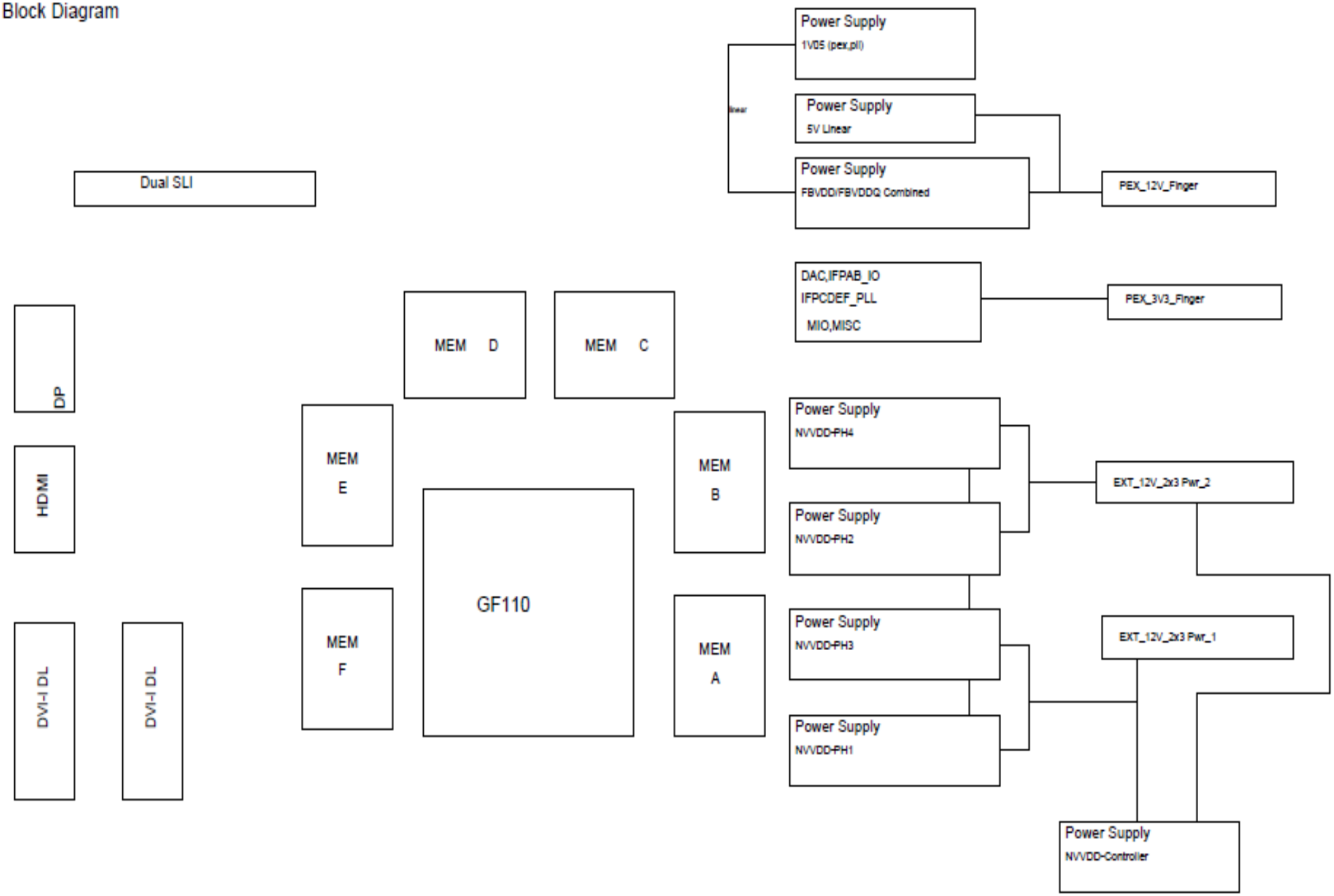
Page2. Block Diagram

Page3. Power Sequence and Power Flow

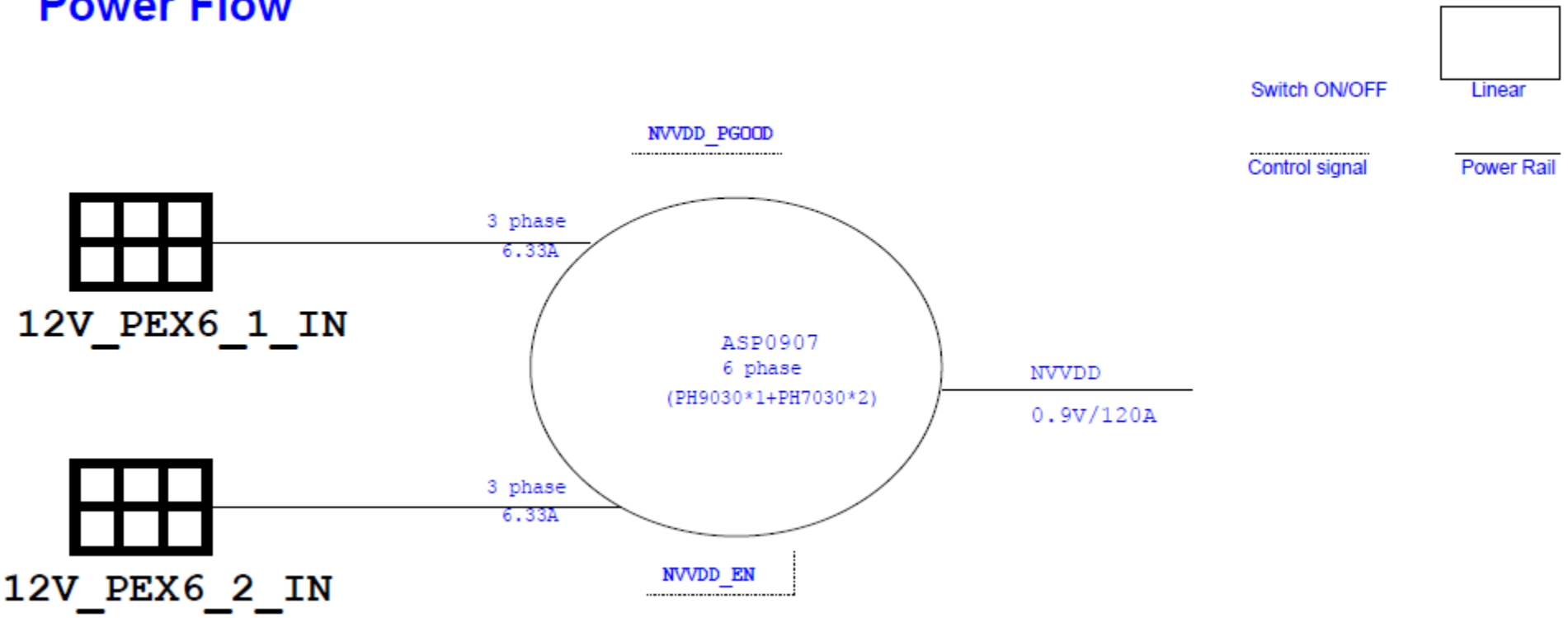
Page4. Power Sequence and Power Flow

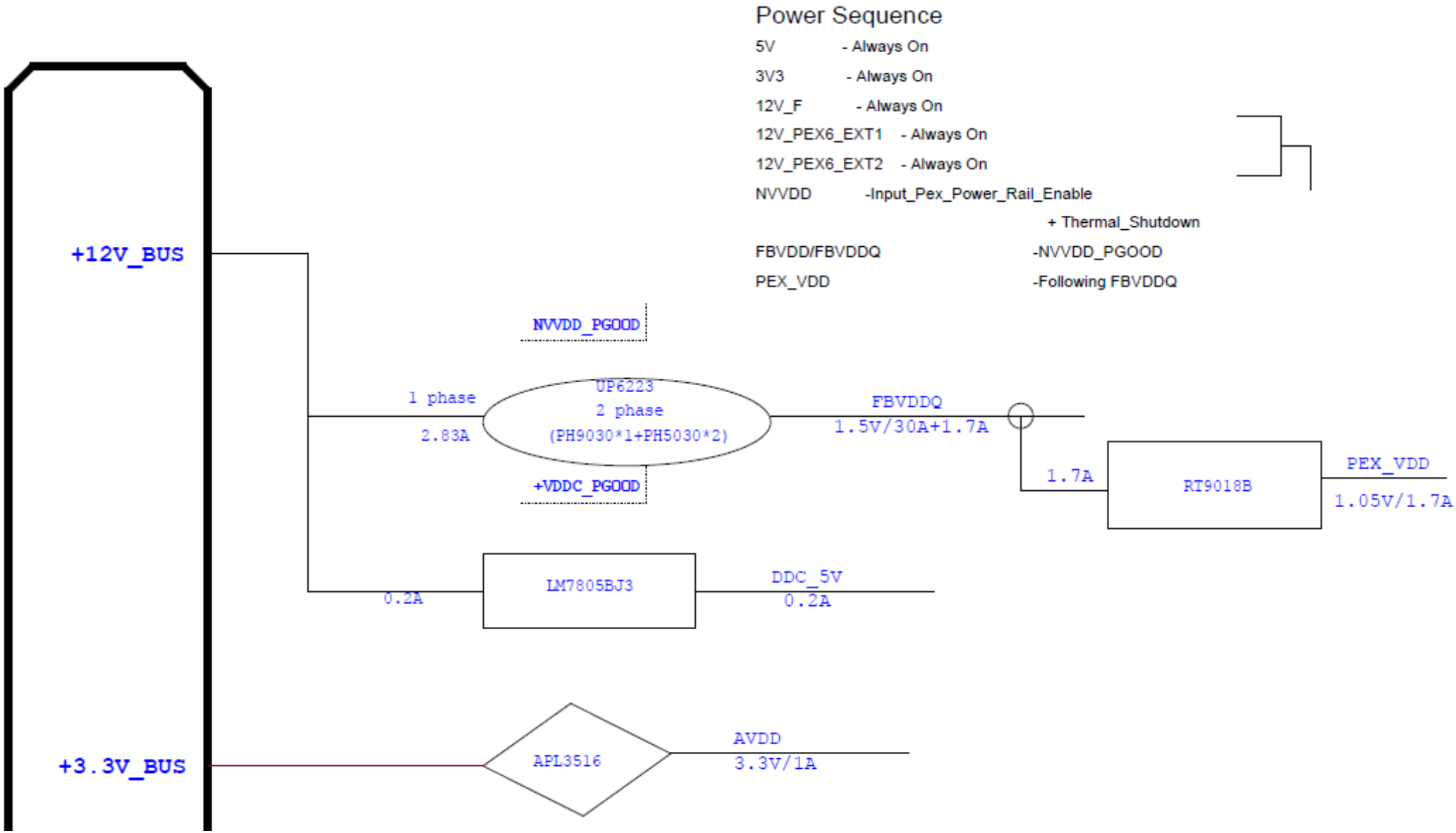
Page5. Important Signal map (Top side)

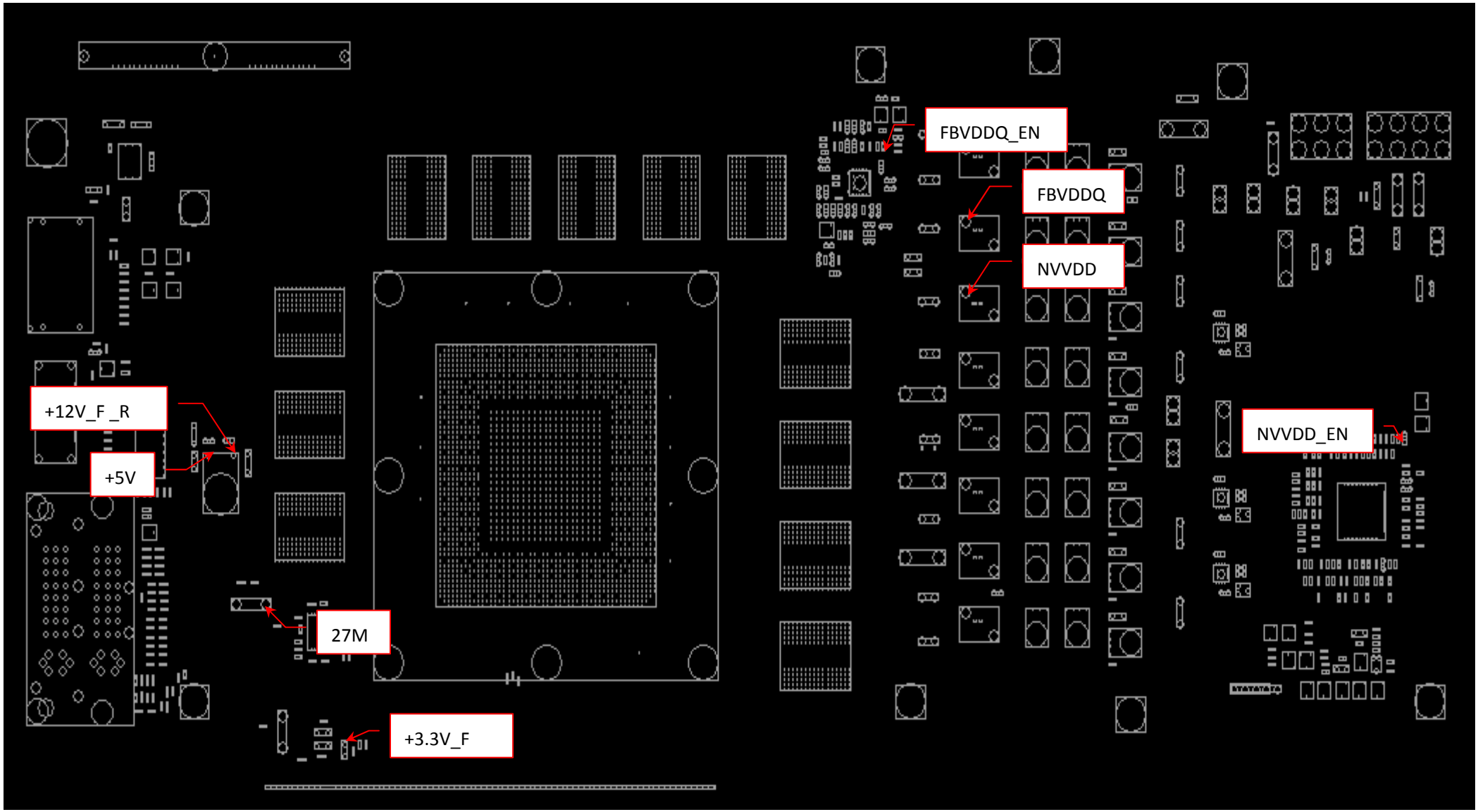
Block Diagram



Power Flow


Switch ON/OFF
Linear
Control signal
Power Rail
NVVDD_PGOOD
3 phase
6.33A
12V_PEX6_1_IN
ASP0907
6 phase
(PH9030*1+PH7030*2)
NVVDD
0.9V/120A
3 phase
6.33A
12V_PEX6_2_IN
NVVDD_EN


Power Sequence
5V - Always On
3V3 - Always On
12V_F - Always On
12V_PEX6_EXT1 - Always On
12V_PEX6_EXT2 - Always On
NVVDD -Input_Pex_Power_Rail_Enable
+ Thermal_Shutdown
FBVDD/FBVDDQ -NVVDD_PGOOD
PEX_VDD -Following FBVDDQ
+12V_BUS
+3.3V_BUS
NVVDD_PGOOD
1 phase
2.83A
UP6223
2 phase
(PH9030*1+PH5030*2)
+VDDC_PGOOD
FBVDDQ
1.5V/30A+1.7A
1.7A
RT9018B
PEX_VDD
1.05V/1.7A
0.2A
LM7805BJ3
DDC_5V
0.2A
APL3516
AVDD
3.3V/1A


FBVDDQ_EN
FBVDDQ
NVVDD
+12V_F _R
+5V
NVVDD_EN
27M
+3.3V_F