ENGT520(C1071M)Repair Guide

ASUS Model name	ENGT520 SL/DI/2GD3/V2
ASUS P/N	60YV01K0-VG0A01
Graphics Engine	NVIDIA GeForce GT520
GPU P/N	02004-00150000
Bus Standard	PCI Express 2.0
Video Memory	GDDR3 2GB
Engine Clock	810 MHz
Memory Clock	1200 MHz (600 MHz GDDR3)

Block Diagram

Power Flow

Switch ON/OFF   Linear   Switching

Control signal   Power Rail
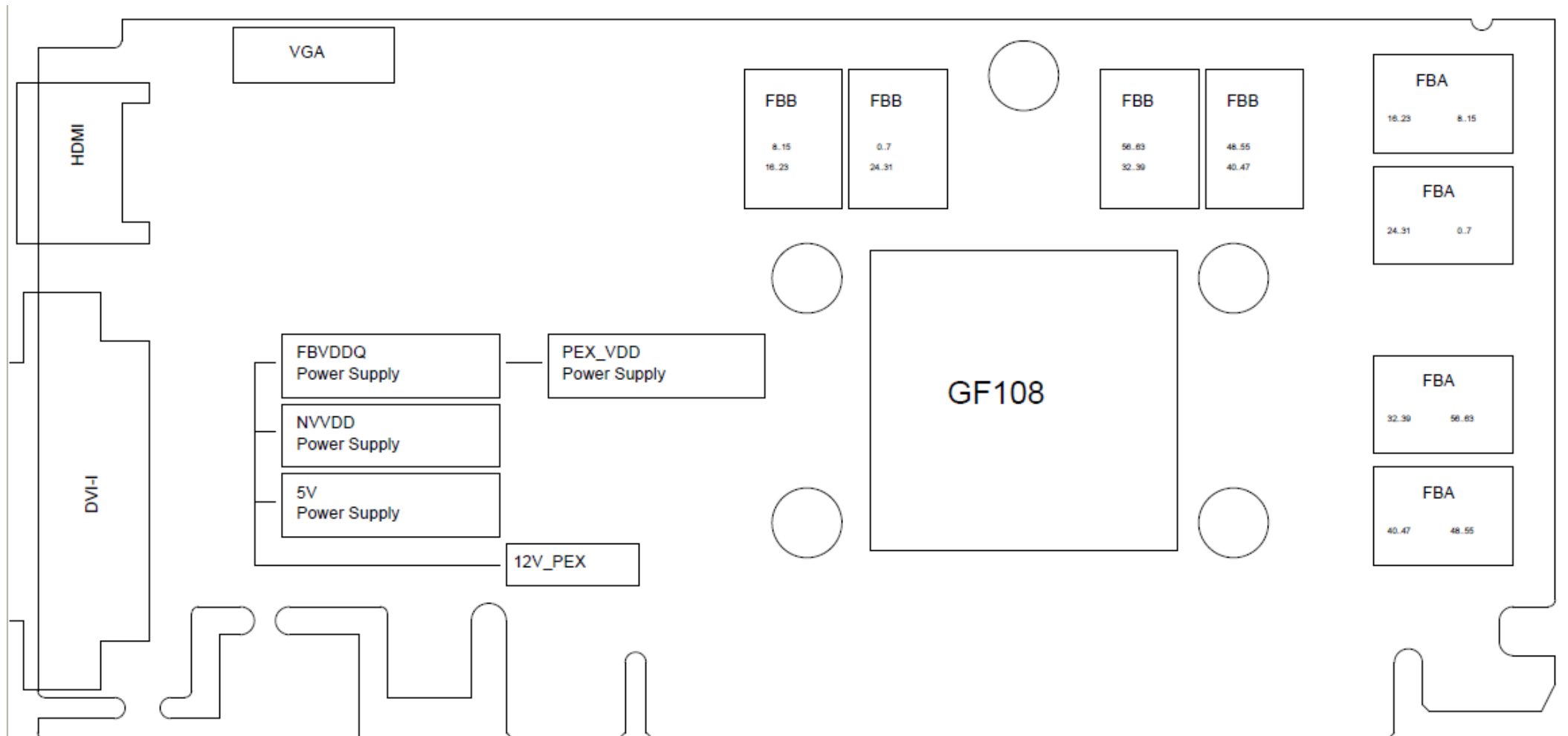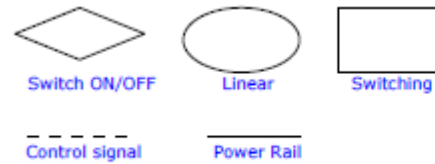
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 I (max)<15A,    Iocp=3*I(max)
15A<I (max)<50A,    Iocp=2.5*I(max)
50A<I (max)<80A,    Iocp=2*I(max)
80A<I (max),    Iocp=1.5*I(max)
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UP6101
1 phase
(PH7030*1+PH5030*2)

1 phase

12V / 3V

NVVDD   35~38W
0.99~1.09V/35A

UP6101
1 phase
(PH7030*1+PH5030*2)

1 phase

NVVDD

12V   76W~89W

FBVDDQ   23~30W
1.5V/15~20A

UP7706

PEX_VDD   3.2W
1.05V/3A

LM7805BJ3

+5V   2.5W
5V/0.5A

3V3   10W

+3.3V   10W
3.3V/3A

12V_PEX, 3V3_PEX

NVVDD, 5V

FBVDDQ

PEX_VDD

< 20 ms

FBVDDQ

NVVDD

5V

12V_PEX

3V3_PEX