HD7790(C582PI)Repair Guide

ASUS Model name	HD7790-DC2OC-1GD5-2DIS
ASUS P/N	60YV0400-VG0A03
GPU P/N	02002-00190000
Bus Standard	PCI Express 3.0
Video Memory	GDDR5 1GB

Power flow & Power sequence

75W

+12V_EXT6

8.82A — 3.13A

| APW7165 |
| 1 phase |
| (4955NT1G*1+4937NT1G*2) |

+MVDD
+1.6V/16~24A

+VDDCI_PGOOD

+VDDCI
1.61A (1phase)

+VDDC
4.08A (2phase)

+12V_BUS

4.93A

4.08A (2phase)
+VDDC

| ASP1106 |
| +VDDC |
| (4 phase) |
| (4955NT1G*1+4937NT1G*2) |
| +VDDCI |
| (1 phase) |
| (4955NT1G*1+4937NT1G*2) |

+VDDC
0.8~1.2V/ 80 ~ 85A

+VDDCI
0.8~0.9V/15 ~ 20A

+1.8V_PG

0.5A

| APW7165 |
| 1 phase |
| (EMB20N03V*1+EMB20N03V*1) |

+PCIE_VDDC
+0.95V 5~5.5A

+PCEI_VDDC_EN

0.35A

LM7805BJ3

+5.0V
0.35A

+3.3V_BUS

RT9018

+1.8V
2.36A

+1.8V_EN

+12V_EXT_R

+3.3V_BUS

+5V

+1.8_EN, +0.94V_EN

+1.8V

+0.94V

+1.8V_PG

+VDDC

+VDDC_PG

+VDDCI

+MVDD

+VDDCI

+VDDC

+MVDD

+12V_BUS

P_1V_EN_10

5V

XTAL(27M

0.95V

P_1V_VCC_20

+1.8V

+1.8V_LDO_EN