

R9280X (C386PI3) Repair Guide

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CSC-GRMA

ASUS Model name	R9280X-DC2T-3GD5-2DIS
ASUS P/N	60YV0500-VG0A02
Graphics Engine	AMD Redeon HD7900
GPU P/N	02002-00060600
Bus Standard	PCI Express 3.0
Video Memory	GDDR5 3GB
Engine Clock	1050MHz
Memory Clock	6000MHz
Memory Interface	384-bit

Page1. Basic Information about the Model

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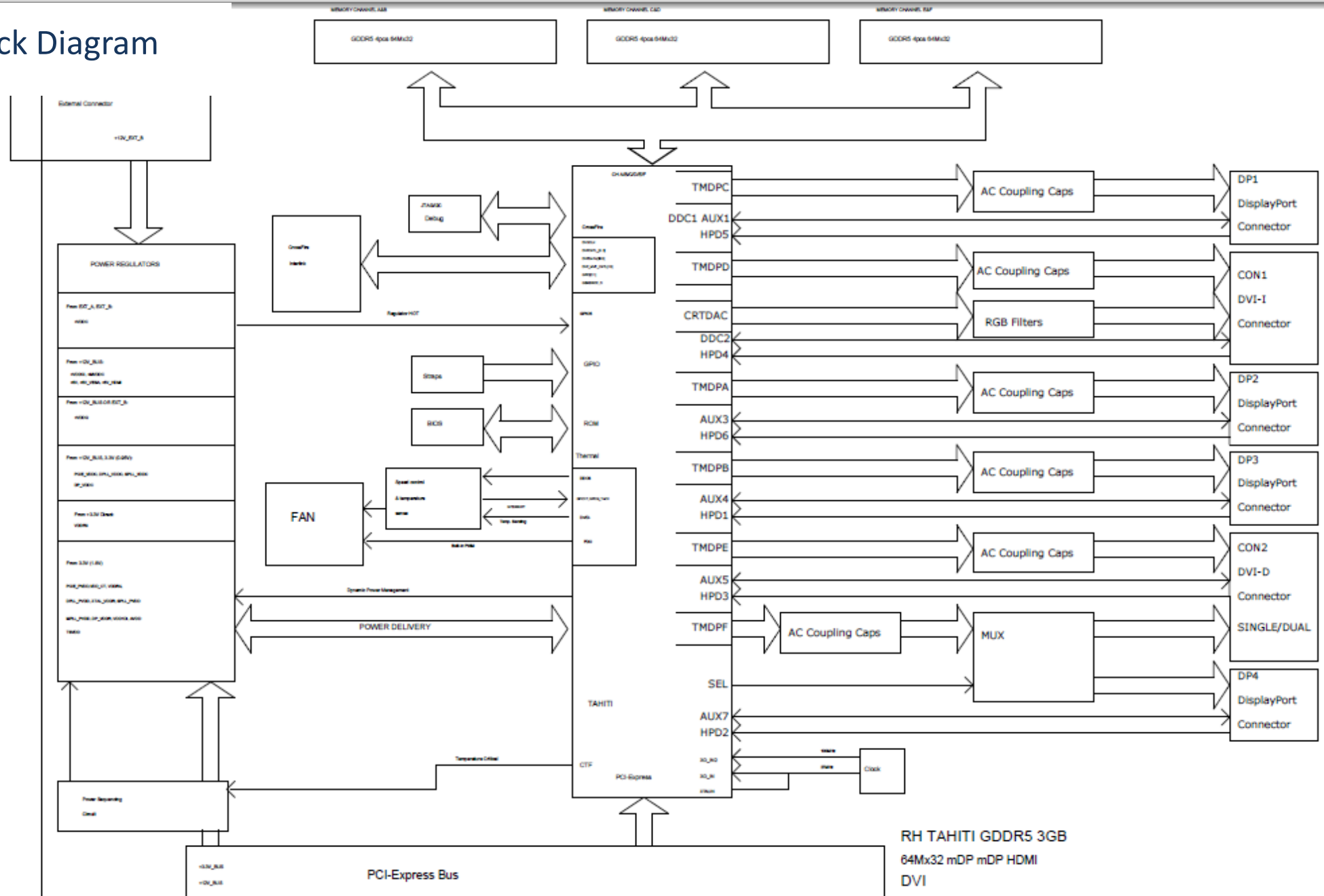
Page6. Important Signal map (Top side)

Block Diagram

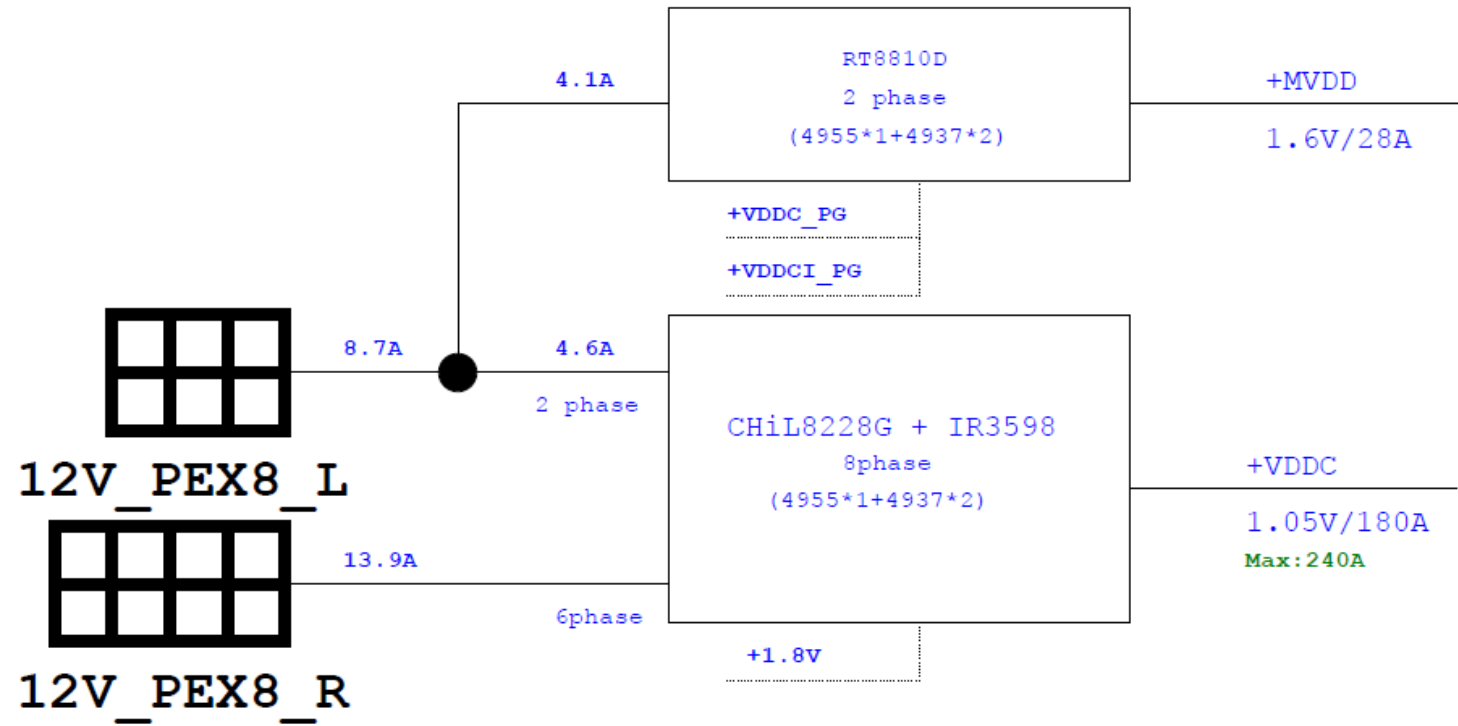
The diagram illustrates the internal architecture of the RH TAHITI GDDR5 3GB graphics card. Key components and connections include:

- Memory:** Three GDDR5 4px 64Mx32 modules are connected to the GPU.
- GPU:** The central component, labeled 'TAHITI', which handles all graphics processing.
- Connectors:** Multiple output connectors including DP1, CON1 (DVI-I), DP2, DP3, CON2 (DVI-D), SINGLE/DUAL, and DP4.
- Power Regulation:** A power regulator section with various input/output lines for power and ground.
- Fan and Thermal Management:** A fan connected to the GPU for cooling, with a temperature sensor and control lines.
- PCI-Express Bus:** The interface for connecting the card to the system.
- Internal Blocks:** Various functional blocks like 'CHANGROUP', 'TAHITI', 'FAN', 'POWER DELIVERY', and 'MUX' are shown with their respective connections.

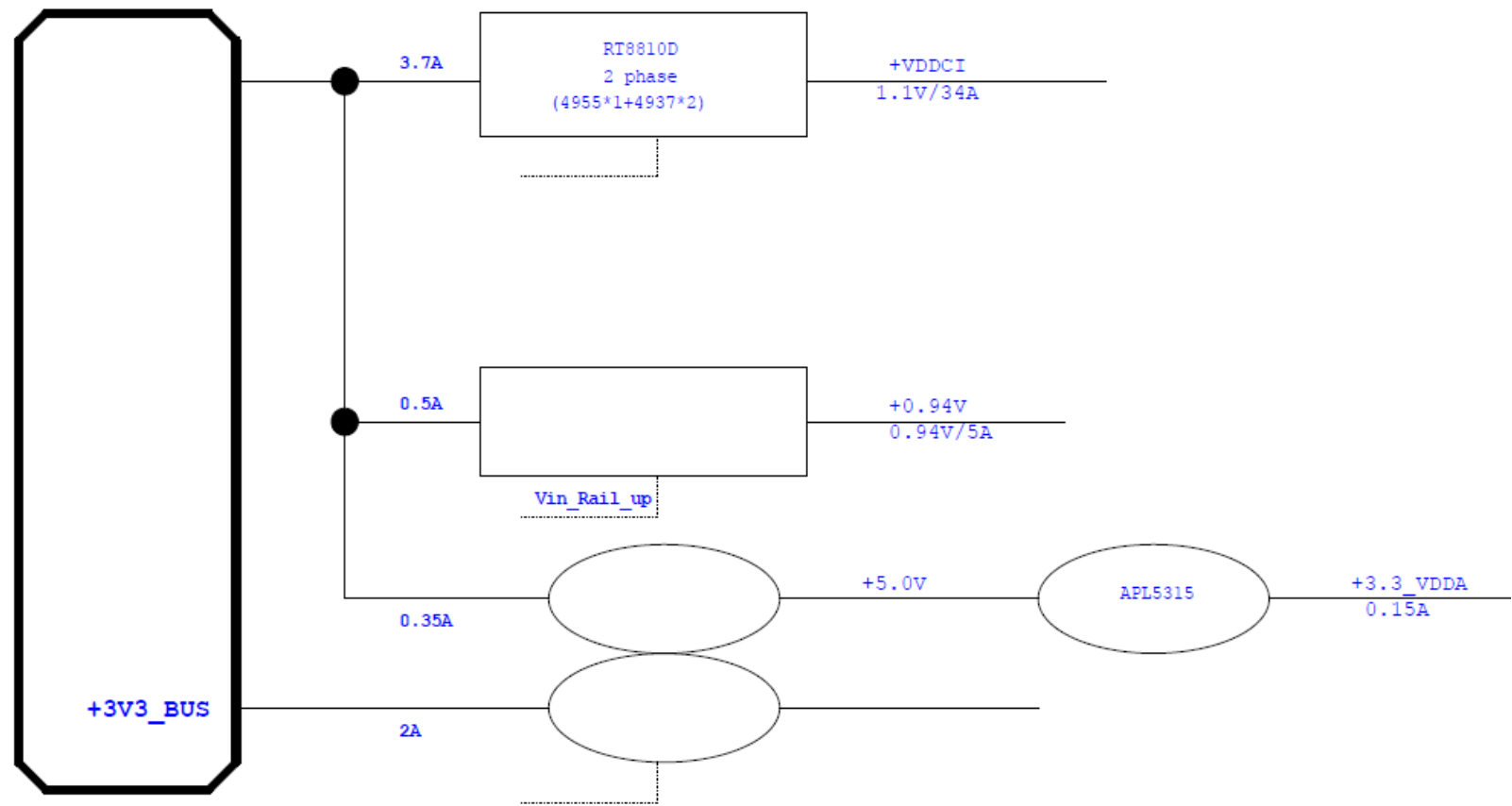
RH TAHITI GDDR5 3GB
64Mx32 mDP mDP HDMI
DVI



Power Flow



Power Flow



Power sequence

