

# GTX780 (C2083X ) Repair Guide

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ASUS Model name	MATRIX-GTX780TI-P-3GD5-2DIS
ASUS P/N	60YV05G0-VG0A02
Graphics Engine	GF GTX770
GPU P/N	02004-00350200
Bus Standard	PCI Express 3.0
Video Memory	GDDR5 3GB
Memory Interface	256-bit

Page1. Basic Information about the Model

Page2. Block Diagram

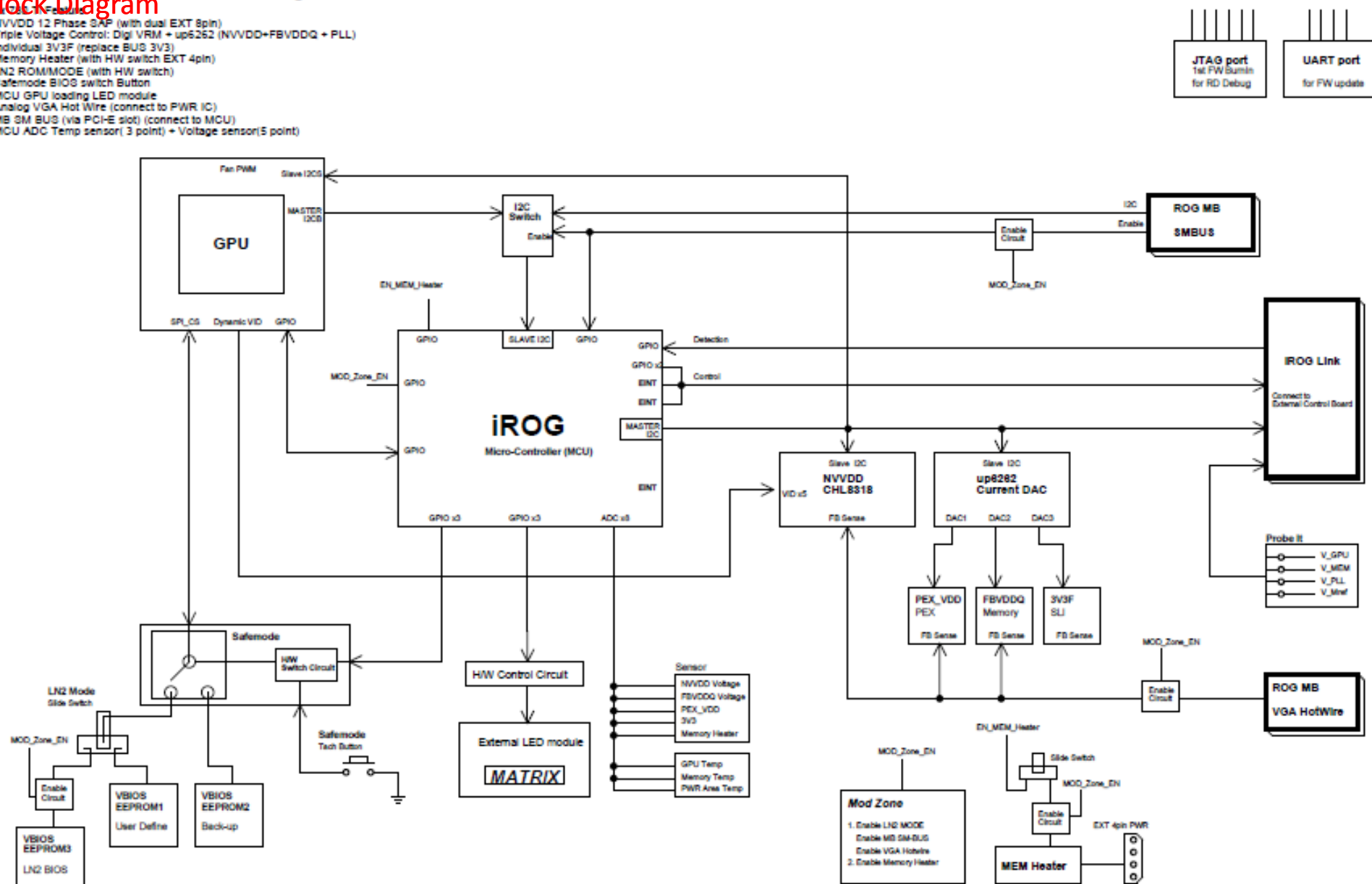
Page3. Power Flow

Page4. Important Signal map (Top side)

# Page 03 ASUS MATRIX 4th - Block Diagram:

## Main Board Features:

01. NVVDD 12 Phase SAP (with dual EXT 8pin)
02. Triple Voltage Control: Digi VRM + up6262 (NVVDD+FBVDDQ + PLL)
03. Individual 3V3F (replace BIOS 3V3)
04. Memory Heater (with HW switch EXT 4pin)
05. LN2 ROMMODE (with HW switch)
06. Safemode BIOS switch Button
07. MCU GPU loading LED module
08. Analog VGA Hot Wire (connect to PWR IC)
09. MB 3M BUS (via PCI-E slot) (connect to MCU)
10. MCU ADC Temp sensor( 3 point) + Voltage sensor(5 point)



## Power Flow

