## P2010-A02 75W/100W GK107/GF108 128-BIT GDDR5 in x32/x16 MODE DVI-I-DL + DVI-D-DL/HDMI +mHDMI/DP TABLE OF CONTENTS 2012/07/05 MS-V280-1.0 changed list Description Page Description Table of Contents PCI Express 12 Remove colay DP (J1) GPU Frame Buffer Partition A/B Remove colay HDMI (J5) 14 FBA Partition [31..0] FBA Partition [63..32] 17 Remove 2pin fan control,add 4pin fan control X2,remove all bumper FBB Partition [31..0] Romove U501 PEX\_VDD / U503 PEX\_PLL / U3 18 FBB Partition [63..32] 21 Change FBVDDQ PWM to UP1529 GPU FB Decoupling 21 Add PSI control circuit DACA VGA Change PWM to 4-phase (ON Semiconductor/NCP5395GMNR2G) IFPAB TMDS 22 IFPC mHDMI 25 Add 6262 voltage control circuit, thermal shutdown circuit and NVVDD power sequence IFPC DP 12 IFPEF TMDS 13 IFPE Long HDMI Core Decoupling, GPU VDD\_3V3 Straps, Thermal, Mechanical 18 Power Supply I: Misc Power Power supply II:PEX\_VDD 20 FBVDDQ NVVDD CTRL 21 NVVDD MOS 22 12V EXT / 12V PEX Power Select Circuit MICRO-STAR INT'L CO.,LTD MS-V280















































