G94-P545-A01 - GDDR3, DVI/VGA + DVI/VGA + Display port + HDMI

| 200 | VARIANT | NVPN | ASSEMBLY |
|---------|-------------------------|-------------------------|---------------------------------------------------------------------------------------------|
| 390 | VALUE | | Post-ma-1 |
| E | BASE | 600-10545-base-100 | P545 BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL |
| 1 1 | SKU9100 | 600-10545-9100-100 | G94-400 650MHz/1000MHz 512MB 16Mx32 BGA136 GDDR3, DVI-I-DL+DVI-I-DL+HDTV-Out (Bring Up SKU) |
| 2 | SKU0000 | 600-10545-0000-100 | G94-400 650MHz/1000MHz 512MB 16Mx32 BGA136 GDDR3, DVI-I-DL+DDVI-I-DL+HDTV-Out |
| 3 | SKU0010 | 600-10545-0010-100 | G94-300 500MHz/800MHz 512MB 16Mx32 BGA136 GDDR3, DVI-I-DL+DVI-I-DL+DTV-Out |
| 4 | SKU0020 | 600-10545-0020-100 | G94-200 500MHz/800MHz 384MB 16Mx32 BGA136 GDDR3, DVI-I-DL+PIDTV-Out |
| 5 | <undefined></undefined> | <undefined></undefined> | <underlined-< th=""></underlined-<> |
| 6 | <undefined></undefined> | <undefined></undefined> | <undefined></undefined> |
| 7 | <undefined></undefined> | <undefined></undefined> | <underlined-< th=""></underlined-<> |
| 8 | <undefined></undefined> | <undefined></undefined> | <undefined></undefined> |
| 9 | <undefined></undefined> | <undefined></undefined> | <undefined></undefined> |
| 10 | <undefined></undefined> | <undefined></undefined> | <underlined-< th=""></underlined-<> |
| 11 | <undefined></undefined> | <undefined></undefined> | <undefined></undefined> |
| 12 | <undefined></undefined> | <undefined></undefined> | <underlined-< th=""></underlined-<> |
| 13 | <undefined></undefined> | <undefined></undefined> | <undefined></undefined> |
| 14 | <undefined></undefined> | <undefined></undefined> | <undefined></undefined> |
| 15 | <undefined></undefined> | <undefined></undefined> | <undefined></undefined> |
| \perp | | | |

Table of Contents:

Page 1: Overview

Page 2: PCI Express

Page 3: MEMORY: GPU Partition A/B Page 4: MEMORY: GPU Partition C/D

Page 5: FBA Partition

Page 6: FBA Partition Decoupling

Page 7: FBB Partition

Page 8: FBB Partion Decoupling

Page 9: FBC Partition

Page 10: FBC Partition Decoupling

Page 11: FBD Partition

Page 12: FBD Partition Decoupling Page 13: FB Net Properties

Page 14: DACA Interface

Page 15: DACC Interface

Page 16: IFP A/B Interface -- DVI Connector South

Page 17: IFP C/D Interface -- DVI Connector MID

Page 18: IFP E/F Interface -- Unused Page 19: DACB and HDTV/SDTV-Out

Page 20: MIO A/B Interface

Page 21: MISC: GPIO, I2C, ROM, HDCP, and XTAL

Page 22: Strap Configuration

Page 23: PWR and GND Signals

Page 24: NVVDD and FBVDDQ Decoupling

Page 25: SPDIF Input, Backdrive Protection, and IFP_IOVDD Power Supply

Page 26: PS I: 3V3, 12V, and 12V EXT Power Supply Filter

Page 27: PS II: PEX_VDD, IFP_PLLVDD, 2V5, 5V, and DDC_5V Power Supply

Page 28: PS III: FBVDDQ Power Supply

Page 29: PS IV: NVVDD VID Control

Page 30: PS V: NVVDD Power Supply Page 31: Thermal Diode and Fan Control

Page 32: Thermal, Mechanical, and Bracket

Page 33: FBA -1Partition

Page 34: FBB-1 Partition Page 35: FBC-1 Partition

Page 36: FBD-1 Partition

V145-0A Base on V135-100 and P545

1.PAGE21: Remove HD Audio circuit.

2.PAGE19: Remove DACB HDTV circuit.

3.PAGE18: Modify DP_Power circuit and AUX channel circuit

4.PAGE 27:Phase adjustment by loading circuit

5.PAGE15: Remove DACC D-Sub connector

6.PAGE16,17: Add J5 Dual DVI connector

7.PAGE 25 add Optical Spidf in connector.

8.PAGE 28 Change FBVDD power solution to UP6205 and PEX_VDD to UP7706

9.PAGE 29 add Winbond W83L786G Hardware monitor

10.PAGE 30 Change NVVDD power solution to ISL6334

PAGE DETAIL

Micro-Star International Co., LTD. Number MS-V145







































































