PS Bank501 MIO Interface: MicroSD, PMOD, LED & Dual-UART

Micro SD Card (Bootable) SD3.0 speed not supported

PS PMOD Interface

PS User LED

Dual USB UART

Layout Note: Ensure a 560-220pF series to create null modem. Place R4 with 180 m.

User's Note: JP3 Leave open (default) to emulate SD Write Protect.

User's Note: T10 and T12 are exposed on this interface to create 3.3V connections.

User's Note: TXD & RXD are swizzled on this interface to create null modem.

User's Note: USB DP & DN signals routed 50 ohm differentially 45 ohm single ended.

User's Note: USB DP & DN signals routed at 50 ohm SE.

User's Note: USB DP & DN signals routed at 50 ohm SE.

User's Note: USB DP & DN signals routed at 50 ohm SE.

User's Note: USB DP & DN signals routed at 50 ohm SE.
**User's Note:**

- DE_POK#LED
  - On: Power OK
  - Off: Shutdown / fail output

**ESD Protection**

- **DP TX0 P**
  - +3.3V
  - GND
- **DP TX0 C**
  - GND

**Layout Note:**

- All display port data signals (TX_P/N, RX_P/N) routed to complemented signal @ 90 degrees differentially & 45 ohm single ended.
 actionPerformed01

This says nothing about the diagram.
FMC LPC (PL Bank64 & Bank65)

100 ohm +/- 15% diff routing.
PL Bank26 (HD) I/O Peripherals: Dual PMOD

PL Dual PMOD

PMOD JA

PMOD JB

Layout Note:
ALL PMOD signals routed at 50 ohm SE.
User's Note:
JT1 & JT2
Default to place resistor on pad 1-2
User's Note:
JTAG Chain
[JTAG_FMC_TDO]
[JTAG_SOM_TDO]

User's Note:
SOM control's up SOM_RESET_IN_N.

User's Note:
JTAG pass through SOM & FMC
2-3: JTAG pass through SOM Only
1-2: JTAG pass through SOM & FMC
JP12: JTAG chain selection

User's Note:
SOM_RST_N
SOM pulls up SOM_RESET_IN_N.
The default power source of a PCIe x1 slot is 10W per PCIe 1.1 specification. Extended is 25W via the PC's BIOS or SW OS configuration.
Power Management IC

IRPS5401MTRPBFA01

VIN_D1
VIN_D2

Switching Frequency: 1MHz

Layout Note:
Net Ties at 0.5mm each.
Tie as close as possible to
each JX pin.

D+12.0V
D+3.3V_PRI

D C B A

Power Management IC

SOM Power Distribute

DC-DC Feedback Selection

UltraZed-EG PCIe Carrier Card

AVNET Avnet Engineering Services