PIXEL Detector LVDS Testing Boards - Functional Block

All signals carried between mass termination board and ladder are carried via fine twisted pair wire with a length of 1m.

All signals carried between mass termination board and Virtex-5 interface board are carried via CAT-5 cables in RJ-45 jacks.

Mass termination board

CLK 3
CLK 2
CLK 1

Virtex-5 interface board

12 x CLK 3
12 x CLK 2
16 x CLK 1

Parallel but buffered signal path for all signals on the same mass termination board. This allows for testing with LVDS buffers inserted into the signal path at the mass termiation board by moving the connection cables to the alternate path.

Multi-drop LVDS CLKs

LVDS Buffers

| 1=>4 | 1=>4 | 1=>4 | 1=>4 | 1=>4 | 1=>4 | 1=>4 | 1=>4 | 1=>4 | 1=>4 |

1 => 4 LVDS fan-outs

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