



## Noise coupling from TDC (digital) to analog inputs

- Dominant frequency range 5 MHz - 80 MHz (and beyond)
- Magnetic (inductive) coupling : Current loops due to common mode component of LVDS signals into cable capacitance  
Digital power/ground current loop
- Electric (capacitive) coupling : Voltage noise on digital power/gnd planes, common mode LVDS voltage.
- Noise coupling is predominantly **down** to MDTs and Hedgehogs

