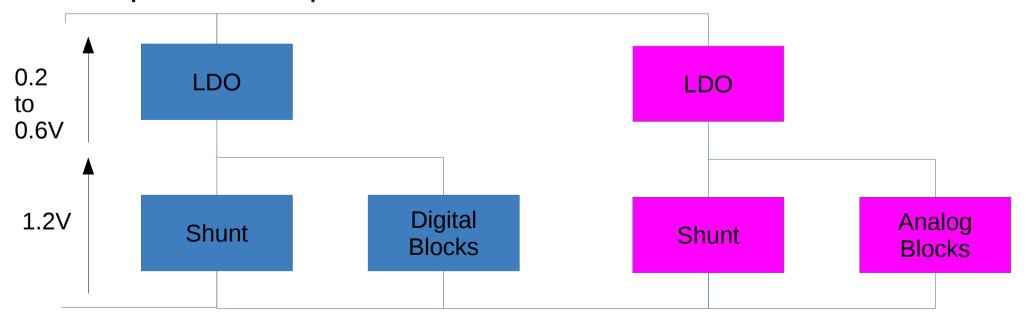
RD53A power supply

To reduce overall current and loss in LV cables, it has been decided to use serial powering of modules (SP chain). SLDO: Shunt Lowd DropOut regulator: keep shunt voltage constant, whatever the current flowing.

Inside each module, 4 FE chips are in parallel.

Principle for 1 chip:



RD53A power supply

Internal voltage: 1.2 V External supply 1.4 to 2.0 V

Three operation modes on SCC:

- ShuntLDO: Constant input current, Local regulated VDD
- LDO: External un-regulated voltage, Local regulated VDD
- Direct power:Shunt-LDO bypassed