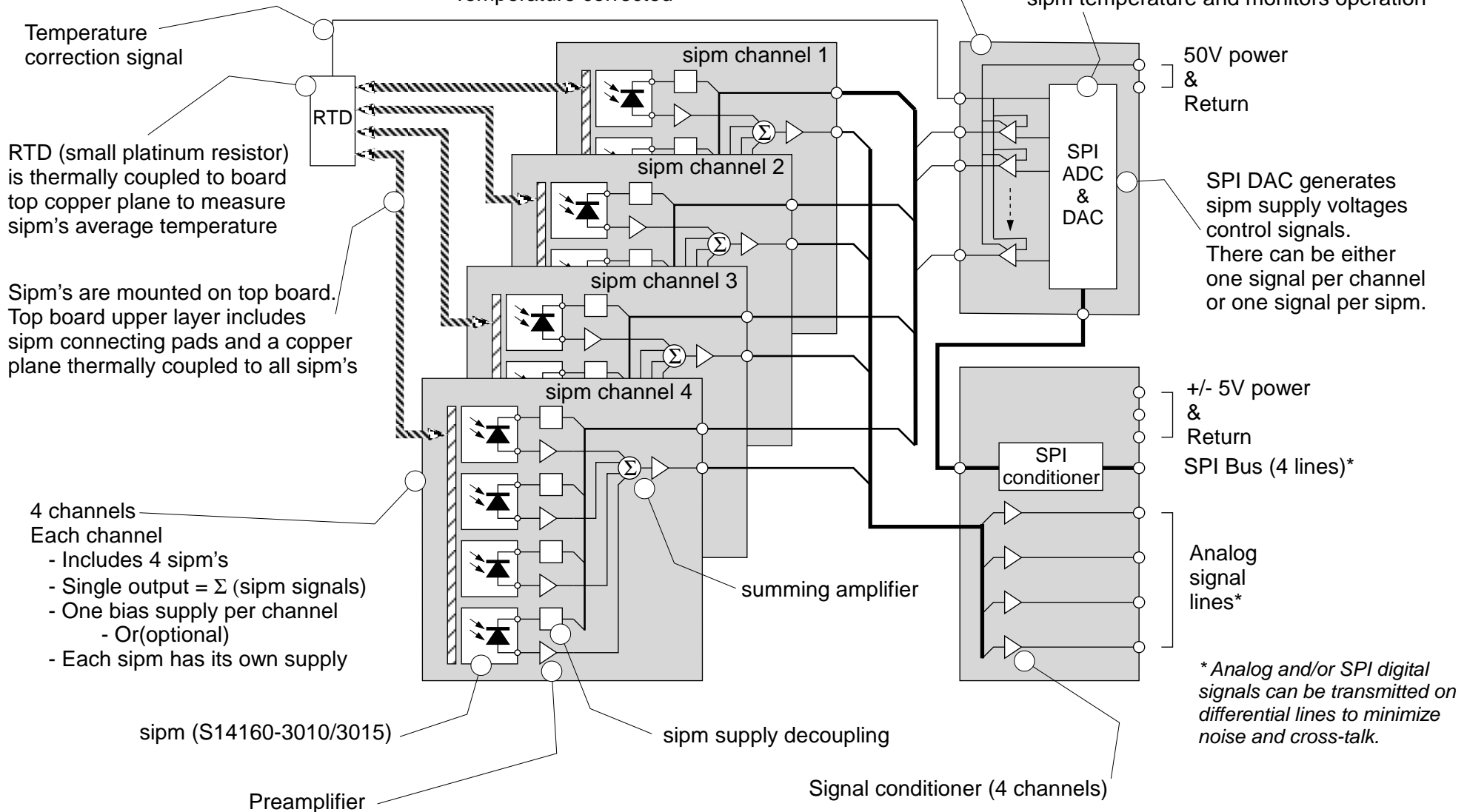


Front end system level description (preliminary)

- Programmable sipm bias supply
- 4 (16) bias outputs (series pass regulators)
 - Each remotely programmable (SPI)
 - Temperature corrected

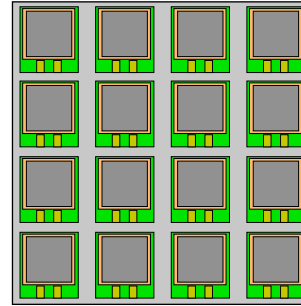


Front end Concept drawing (preliminary)

Includes four (five) stacked boards connected through “mezzanine” connectors)

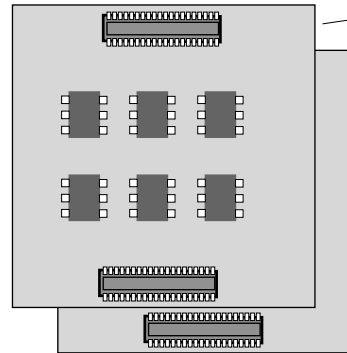
Top Board

- Top side
 - 16 sipm's
 - 1 RTD
- Bottom side
 - Mezzanine connector (surface mounted)
 - Sipm's supplies decoupling



2 Intermediates boards

- Preamplifiers
- Summing amplifier
- Analog signals conditioners
- Mezzanine connectors (through wired)



Bottom board

- Sipm's Power supplies (will need 2 boards if 16 power supplies)
- ADC / DAC
- SPI conditioner
- Interface connector (bottom side)
- Mezzanine connectors(top side)

