PDU SiPM services

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not shown



not shown

PDU voltage services

the **<u>SiPM grouping</u>** is composed of 4 strings of 8 SiPM each

one <u>SiPM matrix</u> is composed of two SiPM groupings

the <u>dRICH PDU</u> is composed of four SiPM matrices

for each SiPM grouping we foresee the following external services (via RDO)

- 1 V-bias
- 1 CTRL-bias
- 1 V-ann
- 1 CTRL-ann
- 1 GND

This is a total of 5 wires for each SiPM grouping, namely a total of <u>40 wires for</u> <u>one PDU</u>. The 40 wires enter on the RDO from the readout box patch-panel.













Annealing MOSFETs

numbers are number of wires







repeated on bottom side not shown





not shown

• wires on SiPM service connector [40]

- 8x SiPM Vbias
- 8x CTRL-bias
- 8x SiPM Vann
- 8x CTRL-ann
- 8x GND

• wires on each RDO SiPM bias connector [40]

- 4x SiPM Vbias
- 4x CTRL-bias
- 4x SiPM Vann
- 4x CTRL-ann
- 4x GND
- 16x MOSFET enable
- 4x NTC sensors

• wires on each FEB-Carrier connector [88]

- 64x SiPM signals
- 8x SiPM Vbias
- 2x CTRL-bias
- 2x SiPM Vass
- 2x CTRL-ann
- 8x GND
- 2x NTC sensors

