

Traveling module checklist

Reception inspection

1. Enter in table date when module was received
2. Perform visual inspection of module (particularly wirebonds), including photos
3. Check jumpers on Single Chip Card (SCC)

Basic communication

1. Change chip name in DAQ's chip configuration file.
2. Check that the chip can be configured by running a quick scan (e.g. a digital scan).

Trim IREF and voltage regulators

1. Measure IREF using a current meter (e.g. Keithley 2400) and trim using IREF_TRIM bits till it is 4 μ A.
2. Record final IREF current measured and value of IREF_TRIM.
3. Measure VREF_ADC trim to 0.9 V by editing config file.
4. Measure VDDA and VDDD, trim to 1.2 V by editing config file.
5. Record VDDA and VDDD after trimming and note relevant register value in config file.

Scanning and tuning

1. Set up NTC to record temperature. Keep a temperature log running throughout entire scan procedure.
2. Record the current drawn on power-up, after configuration, and during some scans (if very different to others).
3. Run the three pre-tuning scans and save their output.
4. Run the threshold and ToT tuning for all three FE's individually. Save their output.
5. Run the three post-tuning scans and save their output.
6. (YARR only) Run the post-processing threshold and noise distribution ROOT scripts. Save their output.

