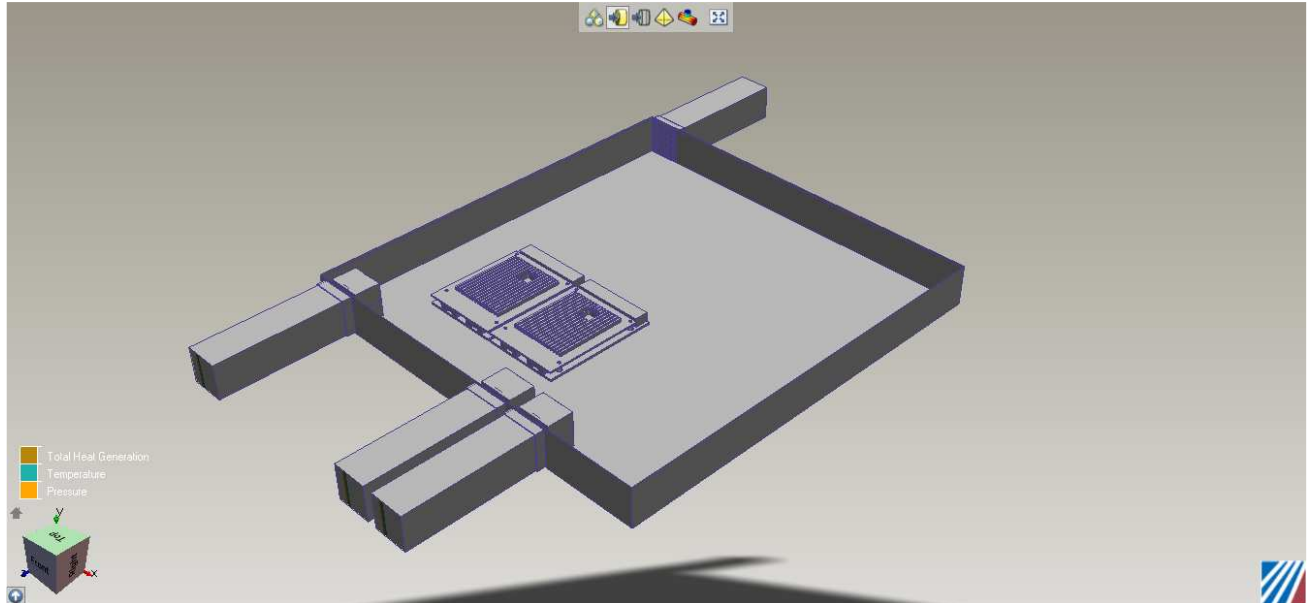




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## ADC Heatsink Chassis Thermal Analysis 2

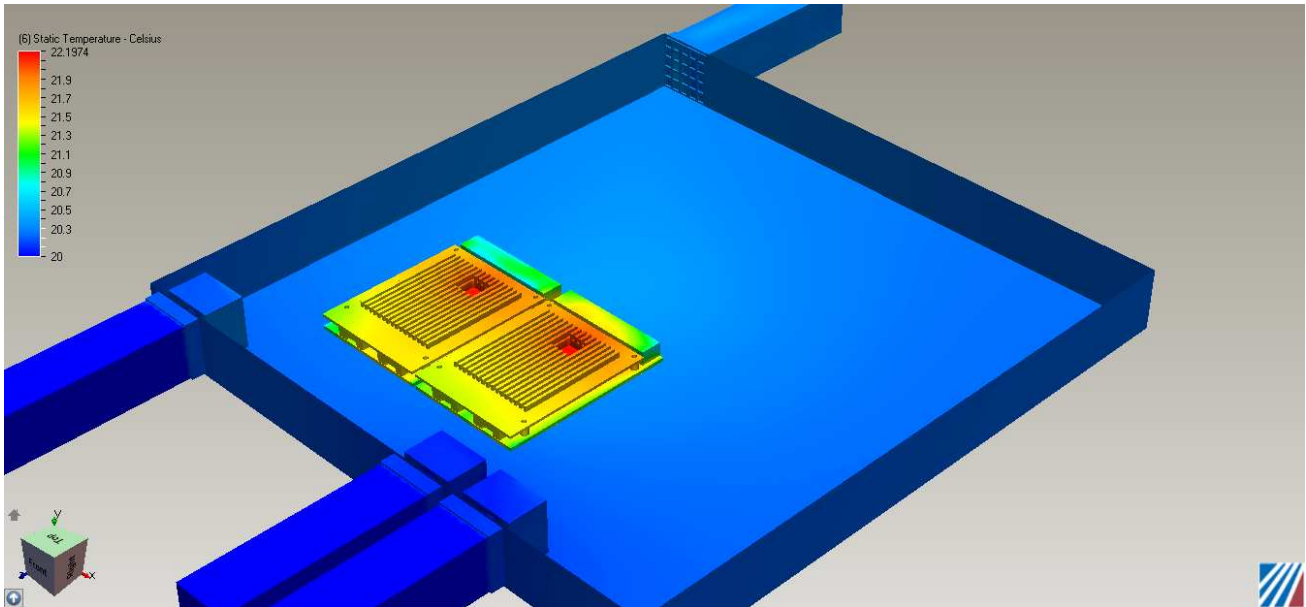
System:



Volume: 450 x 431 x 44.45 mm Roach 2 Chassis  
Inlet: 20 Degrees Celsius, 0 KPa Gauge.  
3 Fans, 14.83 CFM (0,0,-1) direction



## Scenario 1: ADC Heatsink as designed by Phil



### Component Thermal Summary:

#### ADC\_PCB

Minimum Temperature = 20.731697/20.883699 Celsius  
 Maximum Temperature = 22.174850/22.197374 Celsius  
 Volume Averaged Temperature = 21.565813/21.566530 Celsius

#### ADC\_CHIP

Minimum Temperature = 22.002235/21.983850 Celsius  
 Maximum Temperature = 22.174850/22.193455 Celsius  
 Volume Averaged Temperature = 22.129946/22.143957 Celsius

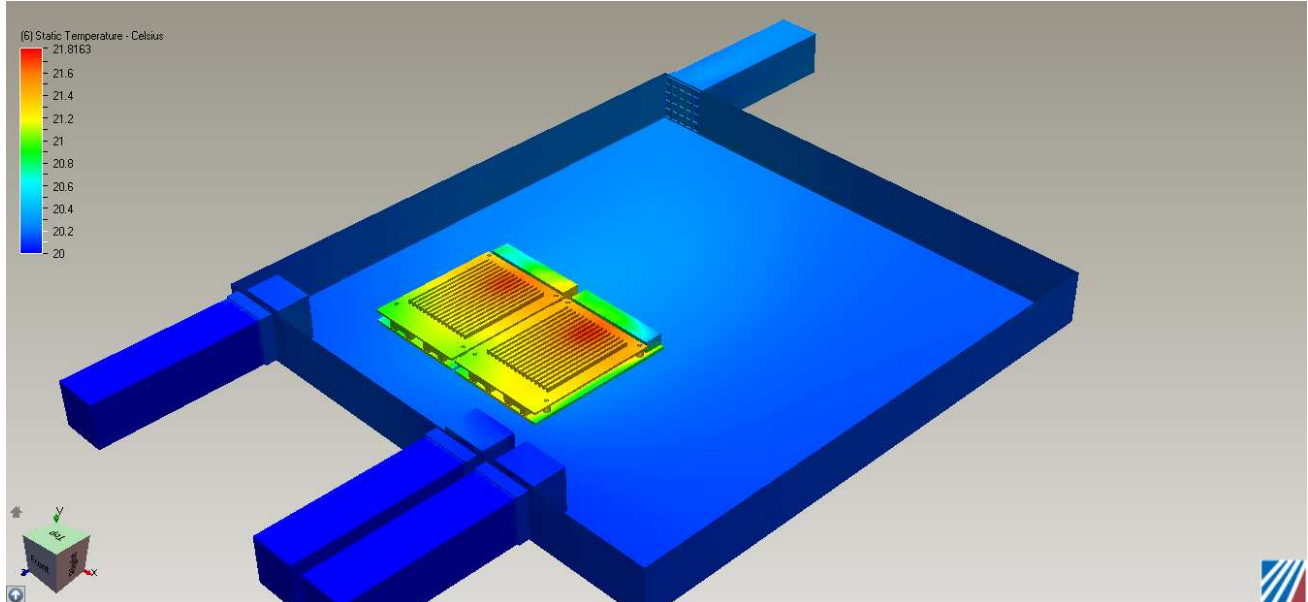
#### ADC\_HEATSINK\_SOLID

Minimum Temperature = 21.184099/21.326660 Celsius  
 Maximum Temperature = 22.167885/22.186201 Celsius  
 Volume Averaged Temperature = 21.635761/21.623938 Celsius

#### Volume

Minimum Temperature = 20.000000 Celsius  
 Maximum Temperature = 22.197374 Celsius  
 Volume Averaged Temperature = 20.322386 Celsius

## Scenario 2: ADC with Solid Centre:



### Component Thermal Summary:

#### ADC\_PCB

Minimum Temperature = 20.501482/20.686430 Celsius  
 Maximum Temperature = 21.749989/21.816324 Celsius  
 Volume Averaged Temperature = 21.196833/21.273567 Celsius

#### ADC\_CHIP

Minimum Temperature = 21.616917/21.667454 Celsius  
 Maximum Temperature = 21.749239/21.814713 Celsius  
 Volume Averaged Temperature = 21.711565/21.767021 Celsius

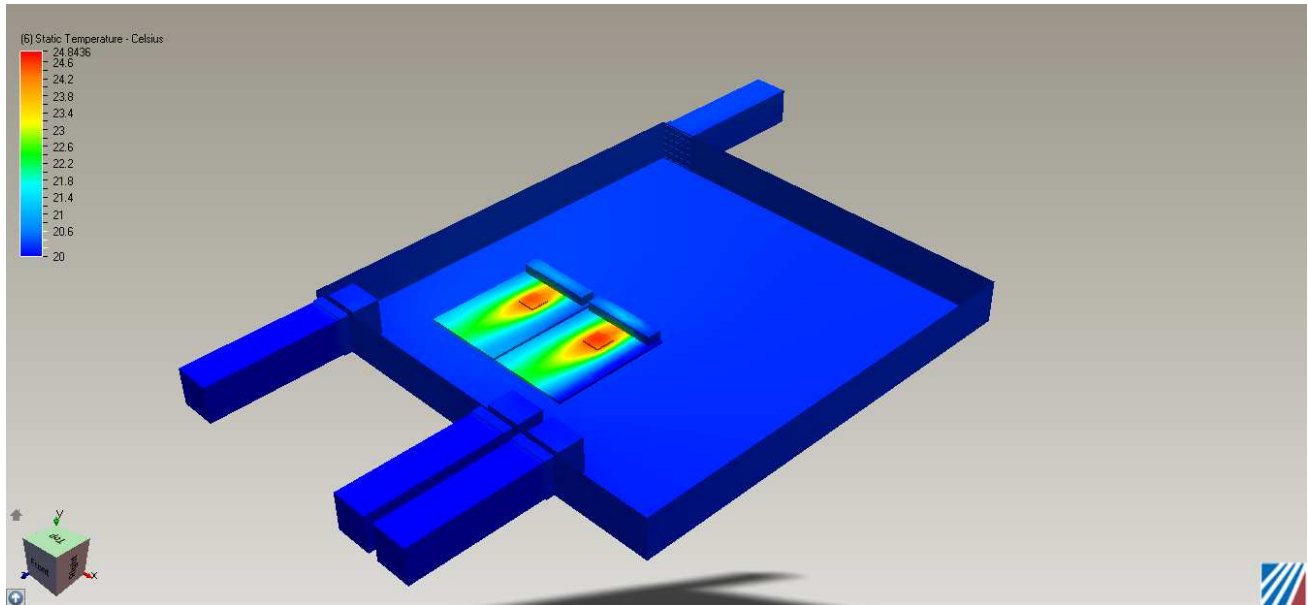
#### ADC\_HEATSINK\_SOLID

Minimum Temperature = 20.858450/20.992380 Celsius  
 Maximum Temperature = 21.736637/21.800669 Celsius  
 Volume Averaged Temperature = 21.301785/21.360006 Celsius

#### Name: Volume

Minimum Temperature = 20.000000 Celsius  
 Maximum Temperature = 21.816324 Celsius  
 Volume Averaged Temperature = 20.207525 Celsius

### Scenario 3: No Heatsink



#### Component Thermal Summary:

##### ADC\_PCB

Minimum Temperature = 20.316292/20.000000 Celsius  
 Maximum Temperature = 24.428749/24.583735 Celsius  
 Volume Averaged Temperature = 21.998354/21.961254 Celsius

##### ADC\_CHIP

Minimum Temperature = 23.710598/23.987743 Celsius  
 Maximum Temperature = 24.433212/24.585785 Celsius  
 Volume Averaged Temperature = 24.280407/24.448376 Celsius

##### Volume

Minimum Temperature = 20.000000/ Celsius  
 Maximum Temperature = 24.843624 Celsius  
 Volume Averaged Temperature = 20.230171 Celsius