Maximum voltage: 4.2 V \* (2 M/(0.8 M+2 M)) = 3 V Minimum voltage: 2.7 V \* (2 M/(0.8 M+2 M)) = 1.93 V ADC value at 4.2 V - 12 bit setup: 3 V \* (1/5) / 0.6 V \* 4095 = 4095 ADC value at 2.7 V - 12 bit setup: 1.93 V \* (1/5) / 0.6 V \* 4095 = 2634 Usable ADC resolution - 12 bit setup: 4095 - 2634 = 1461

