Hardware Setup

Pre-work

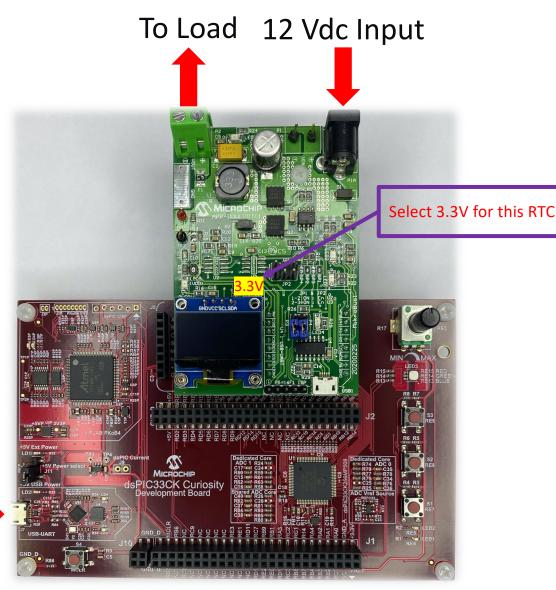


SR Buck Converter Board for Hand-ON

- SR Buck Converter Board:
 - $Vin = 8^18V$
 - ➤ Vout = 3.3V
 - \triangleright lout = 1A
 - $L = 33 \mu H$
 - $ightharpoonup C = 220 \, \mu F \, ESR = 120 \, m\Omega$
 - F_{SW} = 250 kHz (Deadtime=150 ns)

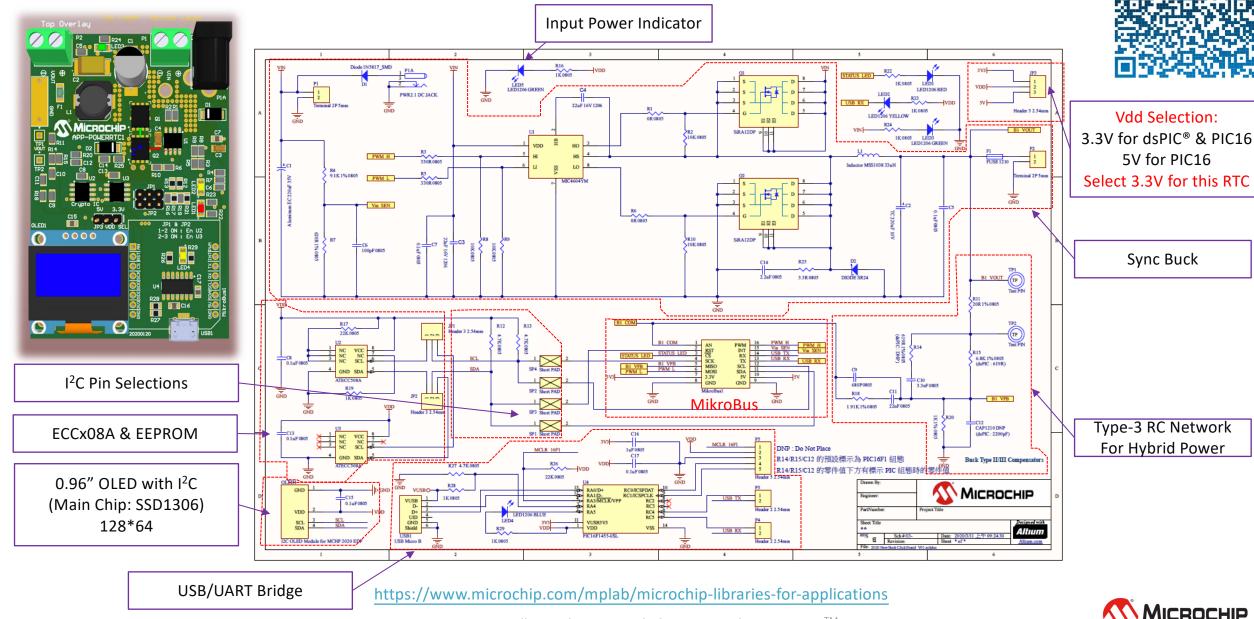
USB Connected:

- The PICkit[™] On-Board (PKOB) USB programmer
- 5V Power Source





Function Blocks Of SR Buck Converter Board



Hardware Modification

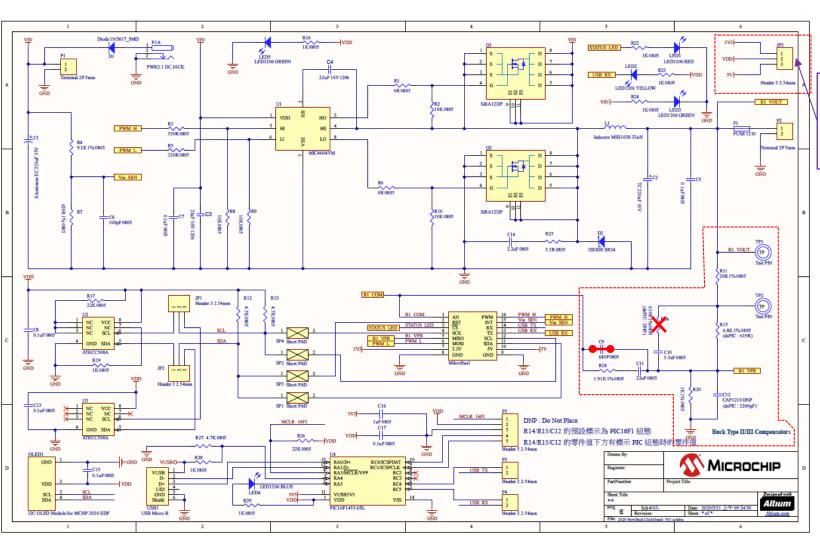


R15 = 619R

C12 = 2200 pF

R14 = Open

C9 = Short





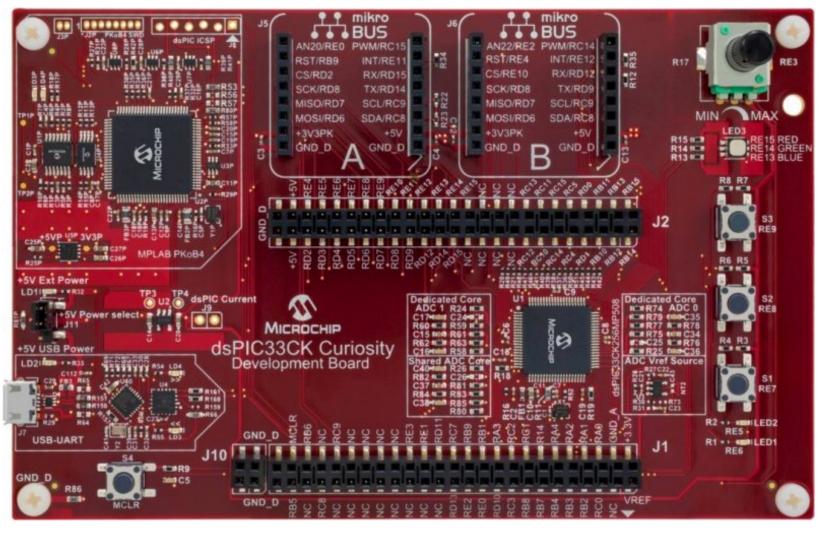
Vdd Selection:

3.3V for dsPIC® & PIC16 5V for PIC16 Select 3.3V for this RTC



Curiosity-DM330030 with dsPIC33CK256MP508

https://www.microchip.com/en-us/development-tool/DM330030







May The Power Be With You



