

chipKIT™ Uno32™ Jumper Settings

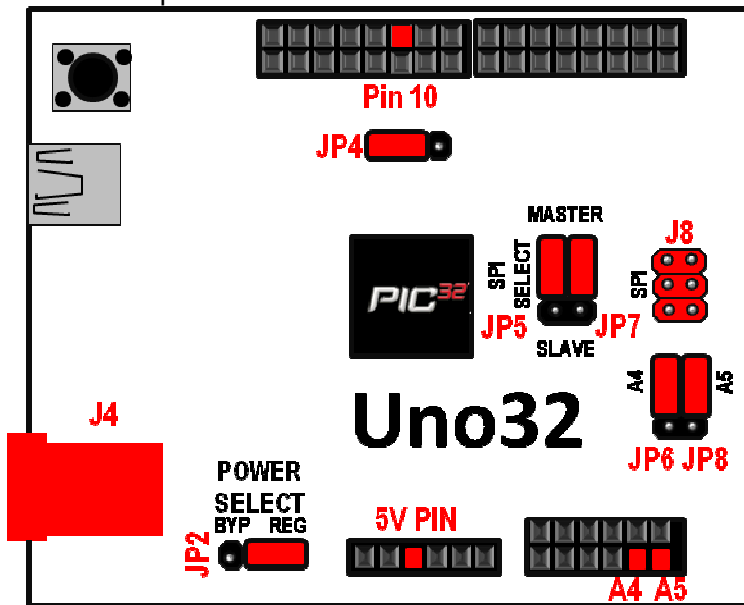


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The chipKIT™ Development Platforms are based off the PIC32 Microcontroller. These are 32-bit products that bring unprecedented features to the Arduino™ community. In order to maintain compatibility with existing hardware/software while maintaining user accessibility to these advanced features, additional jumpers and row headers are provided. This document describes the functionality of the jumpers listed in figure 1.

Figure 1: chipKIT™ UNO32 Jumpers



Jumper	Function
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JP2	POWER SELECT: Used to connect/bypass on-board 5V regulator when using a power supply connected to J4
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J4 supply is regulated (i.e. 5V will be present on 5V pin)



J4 supply bypasses regulator (i.e. Supply voltage will be present on 5V pin)

Note: A 3.3V on-board regulator will always be enable regardless of JP2 settings to protect the PIC32 MCU

Not sure what this does? Play it safe and keep JP2 on the two right-most pins. (i.e. J4 supply is regulated)

JP4

PWM/DIGITAL SELECT: Configures pin 10 on J5 to be used as a PWM output or a Digital Input/Output.



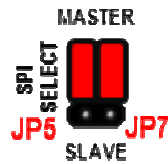
Pin 10 configured as a Digital Input/Output



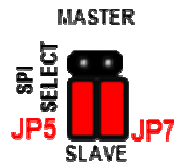
Pin 10 configured as a PWM output

JP5/JP7

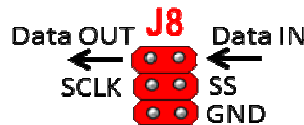
SPI SELECT: Used to configure the chipKIT™ as either a Master or Slave when using the SPI (Serial Peripheral Interface). The chipKIT™ board can be connected to another device or even another chipKIT™ through the SPI connector (J8).



chipKIT™ configured as a SPI Master



chipKIT™ configured as a SPI Slave



For more information on SPI, please visit Wikipedia's SPI page at: http://en.wikipedia.org/wiki/Serial_Peripheral_Interface_Bus#Mode_Numbers

JP6/JP8

I²C/ANALOG PIN SELECT: Used to configure A4 and A5 for functionality as an Analog input or to be used as I²C communication pins.



A4 and A5 on J7 are configured to be used as analog inputs



A4 and A5 are configured to be used as I2C communication lines (A4 – SDA, A5 – SCL)

For more information on I²C, please visit Wikipedia's I2C page at: <http://en.wikipedia.org/wiki/I2C>