Apple II — Scalable Oscillator v2.0 Installation Guide

Thank you for purchasing the UltimateMicro Scalable Oscillator v2.0! It is designed to fit on and work with your ZIP-GSX accelerator board allowing 0.25 MHz increments in speeds starting at 28 MHz (7MHz ZIP-GSX) and ending at 80 MHz (20MHz ZIP-GSX). It replaces your current Oscillator located in the upper-left corner on the face of the ZIP-GSX. A simple DIP Switch controls the speed setting.

The ZIP-GSX takes the Scalable Oscillator's output speed and divides it by 4 to produce the IIgs system's processing speed. This is important to remember when choosing an output speed, and also how we are able to run the ZIP-GSX at 0.25 MHz speeds.

The DIP Switch is clearly marked as to which setting is ON and which is OFF. Be sure to install the Scalable Oscillator as pictured above.

Below is the list of DIP Switch settings and their speed. A Cheat Sheet sticker was also included with your order for your convenience, and is most useful when placed under the lid of the IIgs for future reference.

The Scalable Oscillator v2.0 is set to a default speed of 40MHz (10MHz ZIP-GSX). It is always best practices to recheck all settings before installation and use.

WARNING: Do NOT install or remove the Scalable Oscillator v2.0 while the IIgs is powered on!

Scalable Oscillator v2.0 DIP Settings (0=Off, 1=On)

Output/ZIP	Switch Positions 1 2 3 4 5 6	Output/ZIP	Switch Positions 1 2 3 4 5 6	Output/ZIP	Switch Positions 1 2 3 4 5 6	Output/ZIP	Switch Positions 1 2 3 4 5 6
28/7 MHz	001011	41/10.25 MHz	111001	54/13.5 MHz	010110	67/16.75 MHz	101100
29/7.25 MHz	110011	42/10.5 MHz	011001	55/13.75 MHz	100110	68/17 MHz	001100
30/7.5 MHz	010011	43/10.75 MHz	101001	56/14 MHz	000110	69/17.25 MHz	110100
31/7.75 MHz	100011	44/11 MHz	001001	57/14.25 MHz	111010	70/17.5 MHz	010100
32/8 MHz	000011	45/11.25 MHz	110001	58/14.5 MHz	011010	71/17.75 MHz	100100
33/8.25 MHz	111101	46/11.5 MHz	010001	59/14.75 MHz	101010	72/18 MHz	000100
34/8.5 MHz	011101	47/11.75 MHz	100001	60/15 MHz	001010	73/18.25 MHz	111000
35/8.75 MHz	101101	48/12 MHz	000001	61/15.25 MHz	110010	74/18.5 MHz	011000
36/9 MHz	001101	49/12.25 MHz	111110	62/15.5 MHz	010010	75/18.75 MHz	101000
37/9.25 MHz	110101	50/12.5 MHz	011110	63/15.75 MHz	100010	76/19 MHz	001000
38/9.5 MHz	010101	51/12.75 MHz	101110	64/16 MHz	000010	77/19.25 MHz	110000
39/9.75 MHz	100101	52/13 MHz	001110	65/16.25 MHz	111100	78/19.5 MHz	010000
40/10 MHz	000101	53/13.25 MHz	110110	66/16.5 MHz	011100	79/19.75 MHz	100000

For Support or Questions please see the forums at Ultimate-Micro.com.