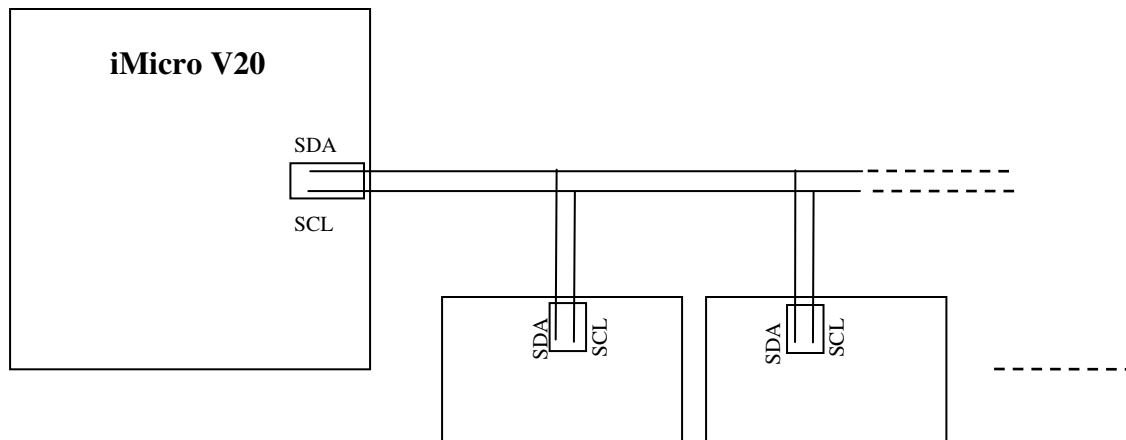# How to connect I^{2}C

By using I^{2}C bus connector (J14), the iMicro board can be used to control other I^{2}C slave devices. The only thing you need to change is the I2C_ADD variable defined in MotionCtrl.h.

Note that the address 0x50 is already used for the onboard MM164X motion controller so you have to use different address to communicate with other I^{2}C compatible controllers.

In one of our application, this iMicro Controller board is connected to Dual Channel DC Motor Driver Module (MHD164) via I^{2}C bus and we can control 4 DC motors. So if your application need to control more than 2 DC motors, it is possible by connecting to other driver cards via I^{2}C bus as long as the addresses are properly taken care of.

The following diagram shows how the boards can be connected using I^{2}C bus.

Note that the J14 of iMicro V20 also comes with 5V and GND pin to power external devices.