

USB-COMi-M Quick Setup Guide for P/N 8500-003

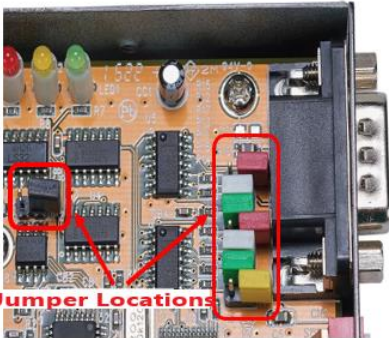
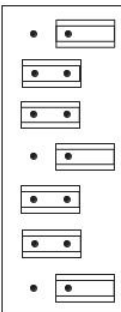
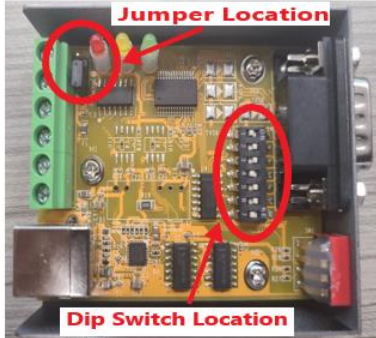
Requirements:

- D2XX Direct Drivers found on [FTDI website](http://ftdi.com).
- The USB A to USB B cable supplied with your USB-COMi-M.
- A personal computer running Windows: 7/8/10/11
Vista and XP. 32 or 64 bit
 - **Note: Microsoft no longer certifies XP and VISTA through WHCK test program. While current drivers may function on XP and VISTA, they are not Microsoft certified.**
- An Applied Motion drive with which to communicate to the PC through the USB-COMi-M.
- Host communication cable (Drive-specific; consult hardware manual or product page)
- A small, slotted screwdriver (provided with your AMP drive) and a small Phillips screwdriver.



Step 1: Configure the Adapter

Use the phillip's screwdriver to remove the outer cover. There are two versions of these boards pictured below. Using the jumpers/ dip switches, configure the device to allow RS-232., 4-wire RS-485 (recommended), and 2-wire RS-485 communications. The settings are outlined below.

Board w/ Jumpers	Board w/ Dip Switches
 Jumper Locations  Jumper Settings	 Jumper Location Dip Switch Location  Dip switch Setting

Step 2: Install Drivers

Connect the USB-COM-i-M using the USB A to USB B cable, Windows will automatically recognize and install the driver. If Windows fails to recognize the adapter, click on the provided link to download and install the latest drivers, following the onscreen instructions.

Step 3: Note the COM port

Open the Device Manager on your PC to set and/or note the COM port that your PC automatically assigned to the USB-COMi-M.

Step 4: Remove Power before Configuring/Wiring

Disconnect the USB-COMi-M from your PC. The USB-COMi-M receives its power from your PC's USB port, and it is best practice to remove power from any hardware before configuring and wiring it.

Step 5: Make a connection between drive and USB-COMi-M

Adjust the external dip switch settings based on the desired communication protocol listed below. Refer to the hardware manual or the host communication cable 2D drawing to identify pin assignments for connection as outlined in the table below.

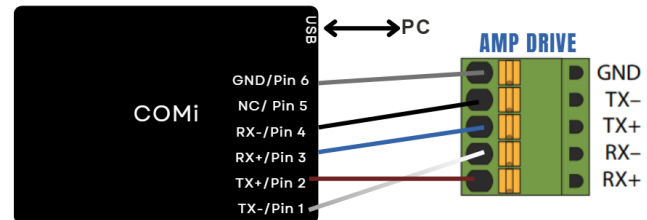
RS-232:

Set external switches SW1 to OFF and SW2, 3, and 4 to ON. Use the 9-pin D-SUB connector on the USB-COMi-M and the Applied Motion serial programming cable to connect to the drive.

4-wire RS-485: Required for AMP Configuration Software

Set external switches SW1, 3, and 4 to ON and SW2 to OFF. Use the pinout below to connect the USB-COMi-M screw terminal connector and the Applied Motion drive's RS-485 connector (5-position screw terminal). It is best to use twisted pair cable to connect the drive and adapter. Use one twisted pair for the TX wires and another for the RX wires.

USB-COMi-M	AMP Drive
Pin 1	RX-
Pin 2	RX+
Pin 3	TX+
Pin 4	TX-
Pin 5	n/c
Pin 6	GND



2-wire RS-485: Half Duplex RS-485

Set external switches SW1 to ON and SW2, 3, and 4 to OFF. Use the pinout below to connect the USB-COMi-M screw terminal connector and the Applied Motion drive's RS-485 connector (5-position screw terminal).

USB-COMi-M	AMP Drive
Pin 1	RX- and TX-
Pin 2	RX+ and TX+
Pin 3	n/c
Pin 4	n/c
Pin 5	n/c
Pin 6	GND

Step 6: Shake hands with your Applied Motion Product!

Reconnect the USB-COMi-M to your PC's USB port. Launch the appropriate Applied Motion software on your PC, such as *SCL Utility* or *ST Configurator*, and then select the COM port to which the USB-COMi-M is connected. Finally, power up the drive and begin communicating.