M Display Console

Debugging/Monitoring Utility for M Display

User's Manual

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"Everything for Embedded Control"

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Introduction

The M Display's USB port, when not in DFU mode, functions as a virtual serial port that can be used to output information to a console program so users can debug, monitor and obtain information about their M Display.

However, because the feature is a implemented via USB the M Display can be hot-plugged and unplugged, and most serial terminals cannot tolerate this. Therefore, the M Display Console was created to make it easier for users to monitor their M Display.

At this time, the M Display cannot receive drawing commands over it's USB port. All drawing commands must be issued to the M Display through its RS-232 serial port.

System Requirements

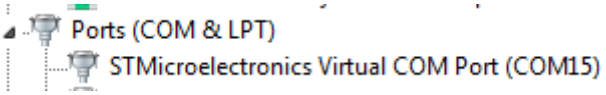
- Windows XP, Vista, 7 or 8
- .Net Framework 4.0

Setup

Be sure the M Display is not in DFU Mode. Switch dip switch 2 to the OFF position. In this configuration, the USB port will function as a virtual serial port.

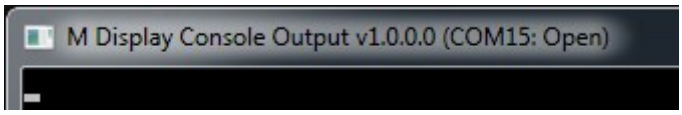
Before connecting the M Display to your PC run the driver installation program in the "Driver" folder for this software package. There are two installation programs: one for 32-bit computers, and one for 64 bit computers. Be sure to execute the appropriate program for your PC.

After successful installation, connect the M Display to your PC . Use the Windows Driver Installation Wizard to finish installing the driver. After successful installation, a device titled "STMicoelectronics Virtual COM Port (COMx)" will appear in device manager. Each PC will assign the COM number differently.

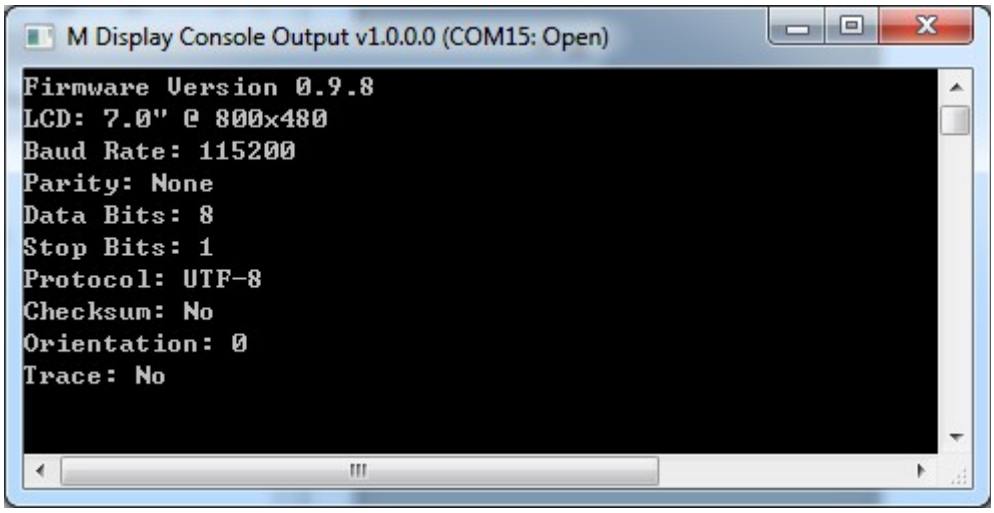


Usage

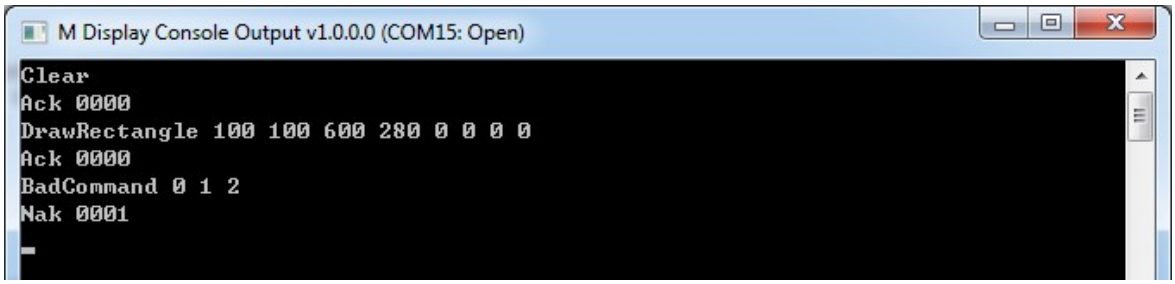
Execute the included MdisplayConsole.exe program. If successfully connected, the console's status bar will indicate so.



Cycle the power on the M Display and it will display the current firmware version and the init.txt configuration as read from the SD Card.



When commands are received by the M Display, it will trace the commands to this console window. This feature is disabled by default, but can be enabled with the *EnableTrace* command in the M Display's initialization file. See the M Display manual for more information.



Shortcut Keys

MdisplayConsole also supports the following shortcut keys

- Ctrl-c - Clears the screen
- Ctrl-r - Resets the M Display
- Ctrl-t - Display a timestamp on each line as shown in image below