

MORSERINO NOTES (N3GE) 12/27/2020

MacBook® DISPLAY

REF: JOHN MOSTQ

See detailed description on page 2

On Morserino: Battery Switch OFF

Connect Morserino to MacBook® via Micro USB to USB cable (not charging cable)

Morserino should power up (If it times out & shuts down, hit red button to wake)

On MacBook®: From LAUNCHPAD; TERMINAL & then within TERMINAL:

TYPE: **ls** <RET> (LS in lowercase) (= list of files in home directory? If yes, it works)

TYPE: **which screen** <RET> (= /usr/bin/screen. Very good, SCREEN is available)

If not, Load a “terminal emulator” program, such as, SCREEN & try again

TYPE: **ls /dev/cu*** <RET> (note space between ls & /),

Reply = list of candidates. Look for one similar to /dev/cu.usbserial-0001

If you cannot locate, unplug Morserino & re-type **ls /dev/cu***, the one missing is one needed. Plug Morserino back in, re-type **ls /dev/cu*** This is one you need.

TYPE: **screen /dev/cu.usbserial-0001 115200** <RET>

On Morserino: Key paddle & see letters within terminal window. If yes – GREAT.

OUTPUT: Double Click **BLACK** button (set preferences)

Rotate **BLACK** button to: Serial Output & choose (i.e. Everything)

On MacBook®: for FONT SIZE: command + for larger command - for smaller

When finished: Unplug Morserino from MacBook® & then TYPE: **<Command> Q**

EMAIL FROM John MOSTQ dtd 12/24/2020

The first step is to leave the battery switch powered off, and connect the M-32 to a laptop or Mac/PC via a USB cable.

This needs to be a full USB cable rather than just a charging cable, but ones for things like old phones or a Kindle should do it.

Once connected, the M-32 should power up, powered by the PC/laptop. If it times out and shuts down, hit the red button to wake it up again.

The next step is to get a 'terminal emulator' programme working on the computer.

How to do this depends on which computer OS you are using. I use Mac and Linux, so I'll explain those for now. If you need Windows, try downloading a programme called Putty, or a member who's an expert in Windows can add to this thread with a better idea.

For Mac or Linux, I recommend using a programme called 'screen'.

On your Mac or Linux system, get a Terminal window up (Google/Youtube this if you need to — both Mac and Linux have built-in Terminal windows). You should get a typing prompt. Type in "ls" (that's LS in lowercase), hit Enter/Return, and you should see a list of the files in your home directory. Great — it's working!

Now type "which screen", Enter/Return. If it replies with "/usr/bin/screen", this is very good. You asked "If I wanted you to run the programme 'screen', which file would you use?" and the computer responded with "the one in /usr/bin/screen". This shows that screen is available for you to use. You don't have to install it from anywhere.

If you get just a typing prompt back, then you don't have screen installed. Let me know on this thread, including what OS you are using (Mac/Linux/Windows), and we'll solve it from there.

If you do have screen installed, then the next thing to do is find which OS file handle is being used for the USB serial port (where the M-32 will copy characters to). If you type "ls /dev/cu.*" you should get a list of possible candidates. One of them will be called "/dev/cu.USB0" or something like that. This is the one you need. Write it down.

If you can't find the right one, unplug your M-32 and re-type the ls /dev/cu.* command; the file handle that disappeared when you unplugged the M-32 is the one you need. Plug it back in and check that it reappears. Write it down.

We should be there :-)

If your USB serial port was /dev/cu.USB0, then type "screen /dev/cu.USB0 115200". Try keying something in on the M-32 and see if it pops up in the new terminal window on the computer. If "Yes" then great!

If not, tell us what is happening, and we'll fix it.

If you type Ctrl-C (hold down Control button and hit C), it should kill the screen command. You can re-run and kill it as you need to. Nothing bad will happen to the M-32: this window is just a copy of what the M-32 is doing.

The final steps to take are:

1) work out how to enlarge the font on your computer window, so you can see it more easily; this is just Cmd++ (hold down the cmd button and then press +) on a Mac; look for Terminal properties or font properties on a Linux machine. and

2) on the M-32, double-click to get to config, scroll through until you get to "USB output" or something like that, and then decide what you want the M-32 to send out the USB port onto the screen. I use "All", but you don't have to.