



## Mustang Application Note MA-02 Quick Start Guide

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This guide explains how the FLE Mustang behaves in its default configuration and how to configure it to suite your needs.

Before powering on the Mustang connect to UART 1 with a terminal client (such as HyperTerminal) with the baud rate set 115,200, 8 data bits, no parity, and 1 stop bit. This debug console will allow you to see a number of debug messages, but most importantly it will show you the IP address that the Mustang acquires via DHCP. Once you know the IP address you can connect to the Mustang with a web browser to view a simple web page and you can use a telnet client to connect to the control port.

Below is a list of default settings used by the Mustang. All of these settings can be changed and the changes stored in the EEPROM to be used the next time the device is powered on.

- DHCP is used
- The web server is enabled
- The control port is 23 (default telnet port)
- Debug info (such as IP address) will be printed on UART 1
  
- Static IP is 192.168.1.200 (unused by default)
- Static gateway is 192.168.1.1 (unused by default)
- Static net mask is 255.255.255.0 (unused by default)
  
- UART 1 bridge connection is disabled (because it is being used as the debug port)
- UART 1 is operating at 115,200 baud
- UART 1 does not use parity
- UART 1 uses 1 stop bit
- UART 1 will connect to Ethernet port 26
- UART 1 will accept connection from any IP address.
  
- UART 2 bridge connection is enabled
- UART 2 is operating at 115,200 baud
- UART 2 does not use parity
- UART 2 uses 1 stop bit
- UART 2 is connected to Ethernet port 40
- UART 2 will accept connection from any IP address.
  
- UART 3 bridge connection is enabled
- UART 3 is operating at 115,200 baud
- UART 3 does not use parity
- UART 3 uses 1 stop bit
- UART 3 is connected to Ethernet port 60
- UART 3 will accept connection from any IP address.

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Use a telnet client to connect to port 23 (default telnet port) to open a control connection.

You will see the following prompt: **Mustang>**

At the prompt the following commands are available:

**Help** - displays the list of options presented here

**Temp** - displays the temperature in degrees Celsius to the debug console

**Eepromwrite** - write one byte of data to the eeprom

**Eepromread** - read one byte of data back from the eeprom

**Baud** - Set the baud rate on a given UART

**Databits** - Set the number of data bits used for a given UART

**Stop** - Set the number of stop bits used for a given UART

**Parity** - Set the parity used on a given UART

**Connect** - Connect a UART to an Ethernet port

**Exit** - Close the current control connection

Mustang Command and Control Table

usage: eepromwrite <address> <data> address ranges from 0 to 65535 data ranges from 0 to 255 (one byte)	Usage: temp Returns the temperature in Celsius to the console
usage: eepromread <address> address ranges from 0 to 65535	usage: stop <uart> <length> uart can be 1, 2, or 3 length can be 1, 1.5, or 2
usage: baud <uart> <baudrate> uart can be 1, 2, or 3 baud can be 1 to 1,875,000 BPS	usage: parity <uart> <even/odd/none> uart can be 1, 2, or 3 parity can be the strings "even", "odd", and "none" (without the quotes)
usage: databits <uart> <bits> uart can be 1, 2, or 3 bits can be 5, 6, 7, or 8	usage: connect <uart> <port> uart can be 1, 2, or 3 port can be 1 to 65535