

Thank you for choosing the MitySOM-335x Maker Transition Kit from Critical Link.

In this Quick Start Guide you will be guided through the initial steps of setting up your MitySOM-335x Maker Transition Kit. This Kit will allow you to transition an existing Beaglebone® based design to the Critical Link MitySOM-335x System on Module; included and installed in the Maker Transition Board. A Linux Operating System is pre-loaded onto the Micro SD to support this transition. The MitySOM-335x Maker Transition Board is designed to offer similar interfaces as that of the Beaglebone to ensure a quick hardware and software transition.

The MitySOM-335x Maker Transition Kit contains the following:

Provided Hardware:

- MitySOM-335x Maker Transition Board with:
 - MitySOM-335x System on Module (Installed)
 - 4GB of eMMC Flash Memory
 - Dual 46-pin Cape Compatible Headers
 - MicroSD Card Connector
 - 10/100 Networking
 - HDMI Output with audio
 - USB OTG (Mini B) and Host (A) Ports
 - Single 5V DC Input
 - JTAG and UART Debug interfaces
- USB to UART Debug Serial cable
- AC/DC 5V 2A adapter
- SD Card pre-loaded with Linux Operating System and demonstration application

Printed Documents:

- MitySOM-335x Development Kit Quick Start Guide (this document)

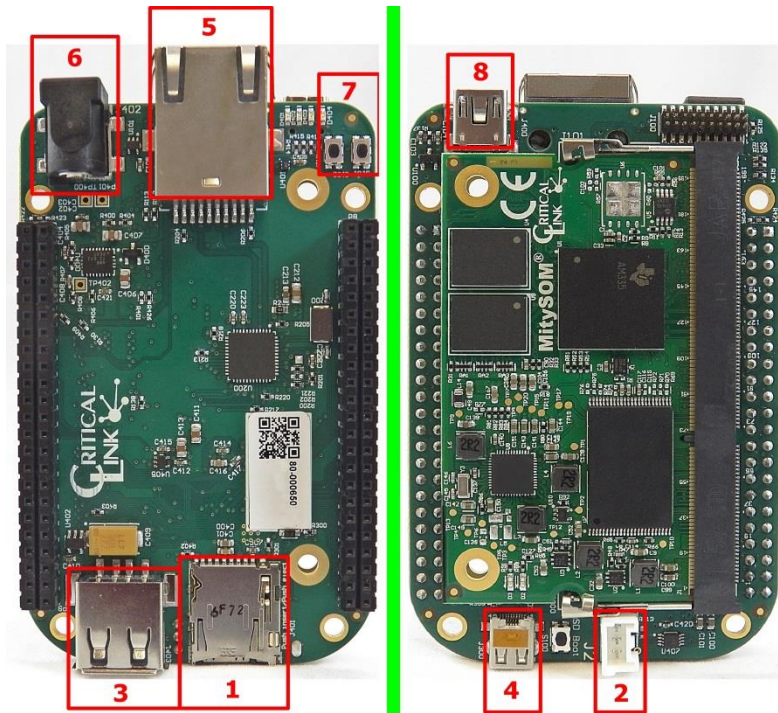
Software and documentation:

- Please visit our support site for updated software and documentation
 - https://support.criticallink.com/redmine/projects/mitysom-335x_maker/wiki

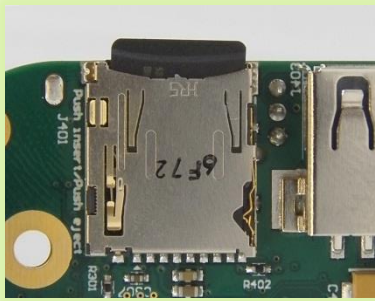
Suggested Hardware (not provided):

- Widescreen HDMI display and MicroHDMI to HDMI Adapter
- USB Mouse (for interaction with Demo application)

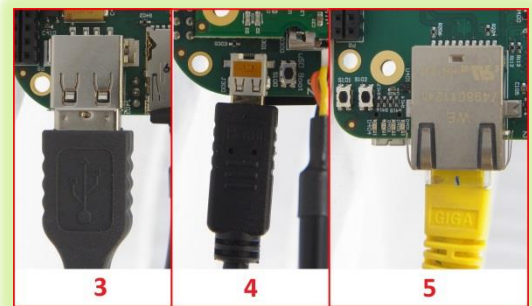
Default Setup (Boot from MicroSD card)



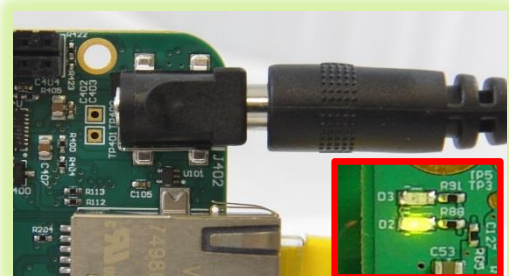
- 1) By default the MitySOM-335x Maker Transition Kit is configured to boot from the included MicroSD card. Make sure that the MicroSD card has been inserted fully into the slot, J401 (Find 1).
- 3) The included SD card will execute a graphical demonstration application by default. You may connect a USB Mouse to the USB A port (Find 3) and an HDMI display, Micro HDMI adapter required, through J300 (Find 4). 10/100 Ethernet is supported by connecting an Ethernet cable to the RJ45 port (Find 5).



- 2) Connect the supplied USB to UART cable to the 3-pin header (Find 2), J2, and then the USB A connector to your PC. Configure your PC serial port application with: 115200 baud rate, 8 data bits, no parity, 1 stop bit and no flow control for the newly detected COM port.



- 4) Connect the 5V AC/DC power input to J402 (Find 6). At this time the module should boot from the SD card. Note: LED D2 on the MitySOM module should light and stay lit once power is applied.

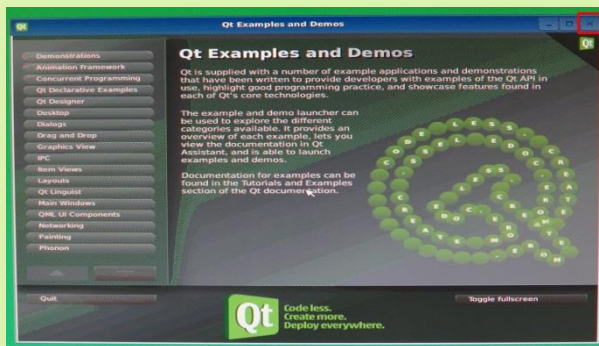


- 5) If the debug serial port is connected to a PC you should see boot messages appear and after approximately 10 seconds there should be a MitySOM-335x prompt shown. **The login is “root”; there is no password.**



```
MITYSOM-335X
Critical Link LLC http://support.criticallink.com mitysom-335x /dev/tty00
Linux kernel version Linux armv7l #19 Thu Nov 3 13:17:19 EDT 2016
Critical Link Linux (sysvinit) 1.6.0 mitysom-335x /dev/tty00
mitysom-335x login:
```

- 6) At this time if a monitor has been connected you should see the following demonstration screen displayed. Using a USB mouse you can interact with the demonstration application. To exit the application press the [X] in the top right corner or the “Quit” button.



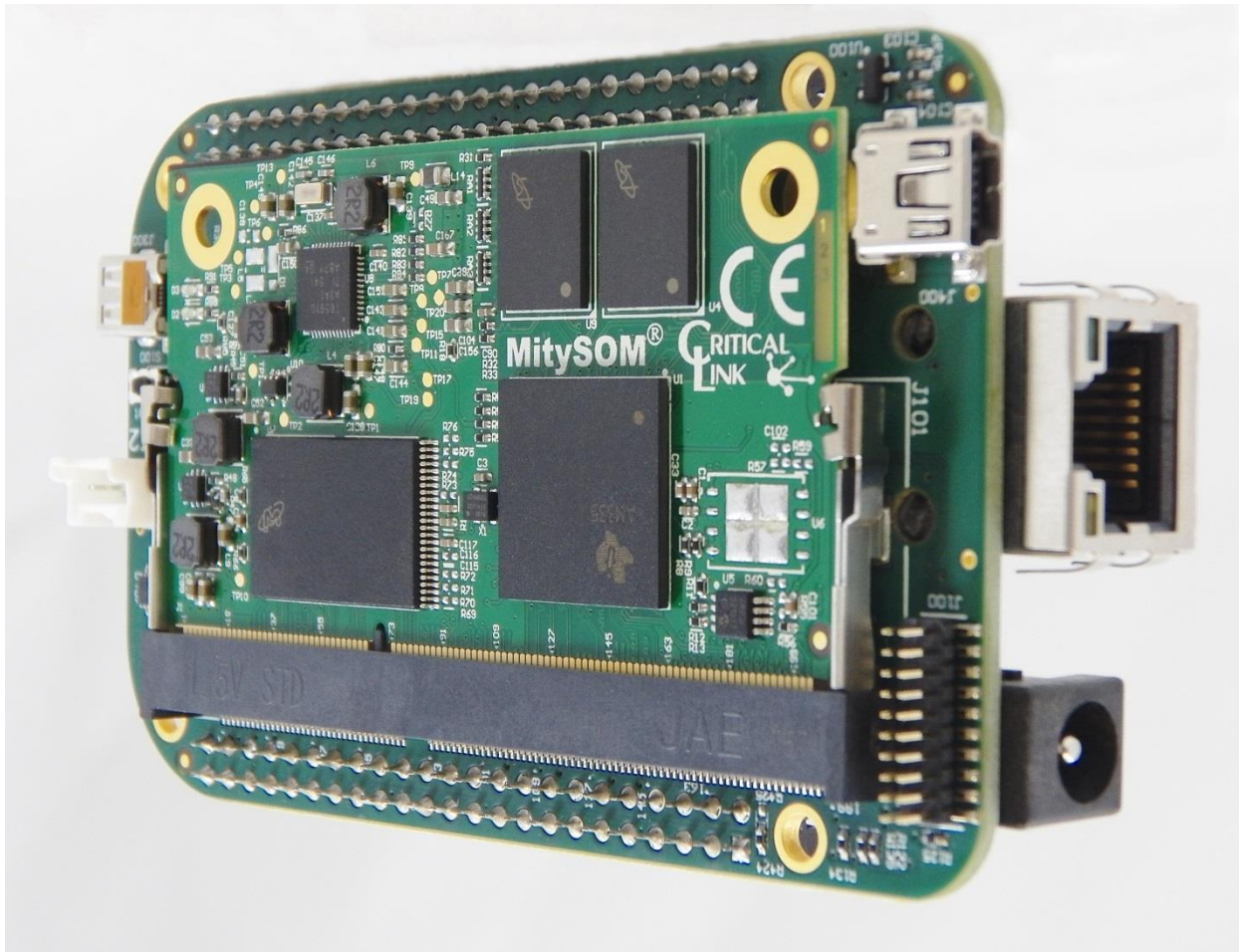
- 7) At this point you may now explore the demonstration applications using your USB mouse.
- 8) If you are NOT using a monitor or other display you can stop and start the demonstration program through the debug serial interface using the following commands:
- Stop/Close: `/etc/init.d/qt demo stop`
 - Start: `/etc/init.d/qt demo stop`
- 9) Included on the board are two Reset/Power switches (Find 7)
- S101 – System Reset
 - S102 – Power Button



- 10) 4GB of eMMC memory is available on the transition board for users and is not programmed by default.

- 11) The MitySOM-335x Maker Transition Board includes a USB Mini B connector (Find 8) which can be used to connect the board to a PC. Currently this is configured as an RNDIS device in the included Linux Kernel.
- 12) The MitySOM-335x Maker Transition Board has been designed to be compatible with most Beaglebone Black compatible expansion capes through the use of the two 46-pin headers, P8 and P9.
- 13) Note that any variant of MitySOM-335x SoM can be installed in the Maker Transition Board. Please contact your Critical Link representative if you would like to obtain an alternate module. Stocked AM335x types:
- AM3352
 - AM3354
 - AM3358
 - AM3359
- 14) If you have any questions please visit our support pages:
- Wiki: https://support.criticallink.com/redmine/projects/mitysom-335x_maker/wiki
 - Forums: https://support.criticallink.com/redmine/projects/mitysom-335x_maker/boards

For more details visit
www.criticallink.com



MitySOM-335x Maker Transition Kit

Quick Start Guide



Mouser Electronics

Authorized Distributor

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