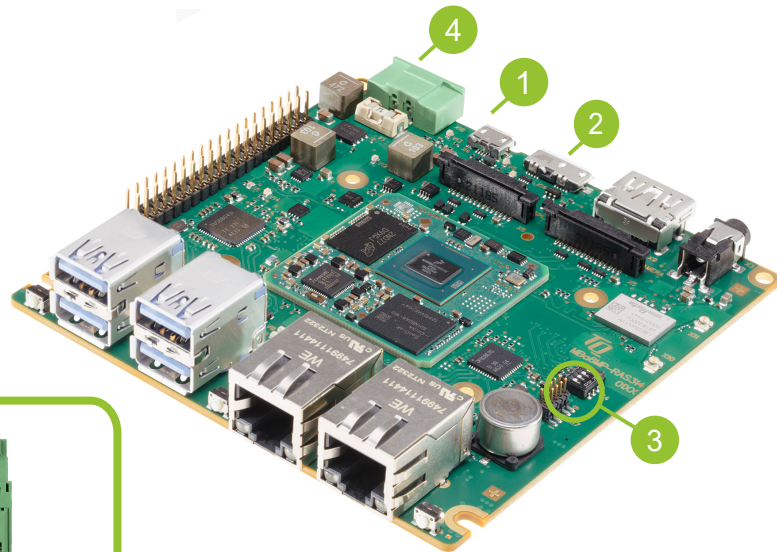


Quick-Start-Guide STKa8MP-RAS314

ARM® Architecture



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i

Hardware Setup

1

Debug/Serial

2

SD Card

3

DIP Switches

4

Power



Power Adapter

CONNECT STARTERKIT TO HOST PC

Connect STKa8MP-RAS314 using the provided Micro USB cable to connect interface X4 to a USB port on the host. A USB serial driver might be required on the host to operate with the Starterkit.

Detailed instructions are available on the [STK Quicksteps](#) Wiki page.

RUN TERMINAL EMULATOR AND CONFIGURE SERIAL PORT

After connecting the STKa8MP-RAS314, two new serial ports are available on the host. The first port is the U-Boot / Linux serial debug console.

A terminal emulator is required on the host (Tera Term is recommended). Configure the serial port using the settings from the table on the right.

Baudrate	115200
Data Bits	8
Parity	none
Stop Bits	1
Handshake	XON / XOFF

SUPPLY STARTERKIT WITH POWER

Connect the provided power supply to X18 on the STKa8MP-RAS314.

Caution when using a different power supply!

The Starterkit requires an input of **12V** and is designed to operate with a regulated power supply.

ESTABLISH SERIAL CONNECTION

The bootloader and operating system outputs are displayed in the debug console. Once the boot process is complete, log in to the system using the default user "root" without a password.

Quick-Start-Guide STKa8MP-RAS314

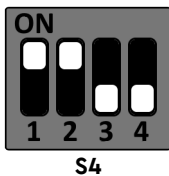
ARM® Architecture



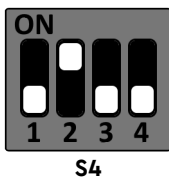
BOOT DEVICE SELECTION

The boot device must be selected with DIP switch **S4**.
By default, the STKa8MP-RAS314 is configured for SD card boot.

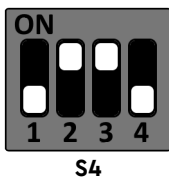
SD Card



eMMC



FlexSPI



For latest documentation, BSPs, etc. please visit:

<https://www.tq-group.com/en/products/tq-embedded/cpu-families/arm-architecture/mba8mp-ras314/>

<https://support.tq-group.com/en/arm/tqma8mpxl/mba8mp-ras314>

Visit our Website:

<https://www.tq-group.com/en/products/tq-embedded>

Visit the Quicksteps page to get started:

https://support.tq-group.com/en/arm/tqma8mpxl/mba8mp-ras314/stk_quicksteps

CREATE A TICKET

Via the TQ-Embedded Helpdesk, you can easily create and manage various types of requests:

<https://support.tq-group.com/helpdesk>



Users of the Starterkit must not dispose the Kit as unsorted municipal waste, but use the collection framework available in their country for the return, recycle, or recovery of WEEE and minimize any potential effects on the environment and human health due to the presence of hazardous substances.

The Starterkit must be recycled, mechanically shredded, or incinerated without the battery.