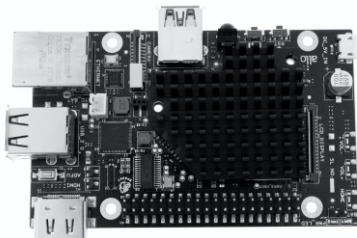




SPARKY QUICK START GUIDE

VER 1.0



QUICK START GUIDE

1 (1A) MICRO SD CARD (1B) eMMC CARD

Sparky will boot from eMMC flash or SD card. First boot priority is from eMMC. Refer to the Sparky SD and eMMC preparation notes for loading new images.

2 HDMI OUT

Plug in your digital TV or monitor

3 CONNECT PERIPHERALS

Plug in a USB keyboard and mouse

4 ETHERNET PORT (10/100)

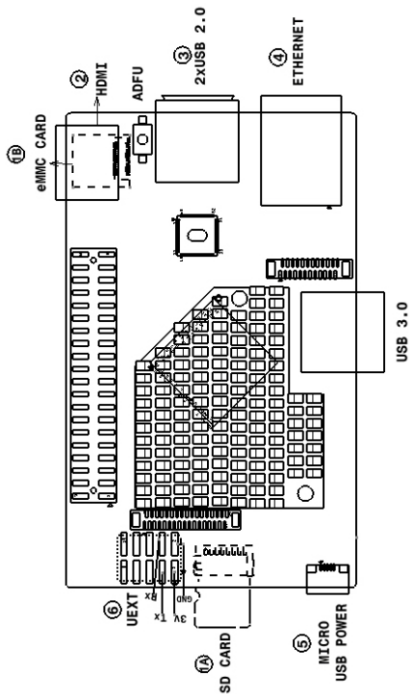
Connect to your wired network

5 POWER SUPPLY

Connect a power source (5V, 2 / 3A)

6 UEXT

Connect serial console (Optional)



Sl. NO	ITEM	SPECIFICATIONS & NOTES
1	Micro SD Card or eMMC	Minimum size 8GB, Class 4 or above. Supports up to 64GB. *We recommend using branded SD cards as they are more reliable.
2	HDMI	HD TVs and monitors with HDMI input or use HDMI to VGA converter for using with VGA monitor.
3	Keyboard and Mouse	Any standard keyboard and mouse should work. Keyboards or mouse that take a lot of power from the USB ports however, may need a powered USB hub. This may include some wireless devices.
4	Ethernet	To update and download software, we recommend connecting to the Internet via an Ethernet cable.
5	Power Adapter	A good quality micro USB power supply that can provide at least 2A at 5V is essential. *For best results, use power adapter supplied with Sparky. Sparky with add on, use 5V 3A adaptor.
6	UEXT	Optional UEXT header has to be fixed on these pads for connecting serial console. Baud rate 115200, N, 8, 1.

SPARKY SBC POWER-ON STEPS

Before you plug anything into your Sparky SBC, make sure that you have all the equipment listed on previous page. Then follow these instructions:

STEP 1:

Insert your Micro SD card into the Micro SD Card slot on the Sparky SBC, or plug the eMMC Card to the eMMC connector.

STEP 2:

Plug in USB Keyboard and Mouse into USB slots on Sparky SBC.

STEP 3:

Make sure monitor or TV is turned on, and select the right input (ie: HDMI1, HDMI2, DVI etc.).

STEP 4:

Connect HDMI Cable from Sparky SBC to monitor or TV.

STEP 5:

If you intend to connect your Sparky SBC to the Internet, plug in an Ethernet Cable to the Ethernet port next to the USB ports.

STEP 6:

When you are finished plugging in all the cables and Micro SD / eMMC Card as required, plug in the Micro USB Power Supply. This action will turn on and boot your Sparky SBC.

LOGGING INTO YOUR SPARKY SBC

Once your Sparky SBC has completed the boot process, a login prompt will appear. The default login for Ubuntu is username **root** with no password (user can set password).

After you have successfully logged in, you will see the command line prompt **root@sparky**

WHAT CAN YOU DO NEXT?

Refer to other guides for Sparky Shields and prepare SD / eMMC.

SAFETY INSTRUCTIONS

SPARKY SBC REGULATORY COMPLIANCE AND SAFETY INFORMATION

WARNINGS

- This product shall only be connected to an external power supply rated at 5V 2/3A DC or any external DC power supply.
- This product should be operated in a well ventilated environment
- This product should be placed on a stable flat non conductive surface in use and should not be contacted by conductive items.
- The connection of incompatible devices to the GPIO connector may affect compliance or result in damage to invalidate the warranty..
- All peripherals used with the Sparky SBC should comply with relevant standards for the country of use and be marketed accordingly to ensure that safety and performance requirements are met. These articles include but are not limited to keyboards, monitors and mouse used in conjunction with the Sparky SBC.
- The cable or connector used must offer adequate insulation and operation in order that the requirements of the relevant performance and safety requirements are met.

INSTRUCTIONS FOR SAFE USE

To avoid malfunction or damage to your Sparky SBC please observe the following:

- Do not expose it to water, moisture or place on a conductive surface whilst in operation.
- Do not expose it to heat from any source; the Sparky SBC is designed for reliable operation at normal ambient room temperatures.
- The Sparky SBC is not designed to be powered from a USB port on other connected equipment (such as PC/LAPTOPs), if this is attempted it may malfunction.
- Take care whilst handling to avoid mechanical or electrical damage to the printed circuit board and connectors.
- Avoid handling the printed circuit board while it is powered.
- Only handle by the edges to minimize the risk of electrostatic discharge damage.

COMPLIANCE INFORMATION

The Sparky SBC complies with the relevant provisions of the RoHS Directive for the European Union.

WEEE DIRECTIVE STATEMENT FOR THE EUROPEAN UNION

In common with all electronic and electrical products the Sparky SBC should not be disposed of in household waste. Alternative arrangements may apply in other jurisdictions.

COMPLIANCE STATEMENTS

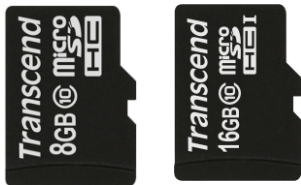
ELECTROMAGNETIC COMPATIBILITY COMPLIANCE STATEMENT

- This product is in conformity with the protection requirement of EU council Directive 2004/108/EC on the approximation of the laws of the member states relating to electromagnetic compatibility.

- This product has been tested and found to comply with the limits for Class B information Technology Equipment according to the European Standard.

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits designed to provide reasonable protections against harmful interference in a residential / commercial environment. This equipment complies with part 15 of FCC rules. Operation is subject to the following two conditions: 1) this equipment might not cause harmful interference. 2) this equipment must accept any interference received, including interference that might cause undesired operation.

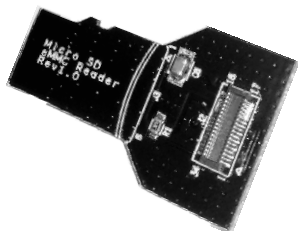
OPTIONAL ACCESSORIES



Micro SD 8GB or 16GB



Power Adaptor 5V 2 / 3A



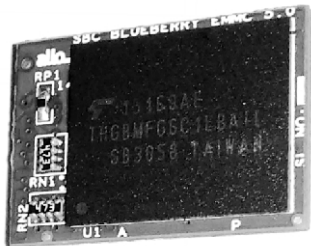
eMMC Card Reader



Battery Pack



Spacers & Screw



eMMC

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