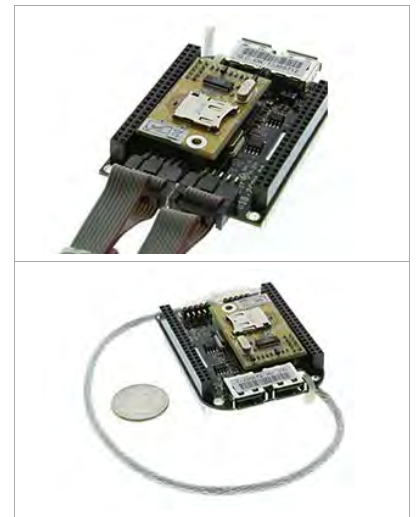




Technical Data Sheet

BeagleBone Black USB Expansion RS232 Module Cape

Model Number: USB-2COM-BB



The USB-2COM-BB is a plug-in RS-232 cape designed for the developers and users of BeagleBone and BeagleBone Black. The USB-2COM-BB BeagleBone RS-232 cape provides two high-speed RS-232 serial interfaces, two high-efficient USB 2.0 ports and one Micro SD card reader. The two RS-232 serial ports are located to the side of the cape with two 90-degree 10-pin connectors.

Features

- TAA Compliant
- Fully compatible with BeagleBone Black or BeagleBone platform.
- Adds two high speed RS-232 serial ports via USB connection.
- Plug-and-Play; no software or drivers required
- Supports SD specification v1.0 / v1.1 / v2.0 / SDHC, up to 32GB
- Compatible with SDXC, Up to 2TB
- Micro SD card reader with 480 Mbps USB 2.0 transfer speed.
- Each downstream USB port supports 5V 500 mA power for external high power USB devices
- Two DB9 Male connectors via IDC flat ribbon cable

Product Information

- **Model Number:** [USB-2COM-BB](#)
- **Packing List:**
 - USB-2COM-BB Expansion Cape
 - Assembly screws
 - Driver Disk
- **Optional Accessories:** N/A

- Individual port power management
- Each serial port provided 384 bytes receive buffer and 128 bytes transmit buffer for high speed data throughput.

Specifications

Overview

Interface	USB to Serial
Port Connections	2x RS-232 DB-9 Male via IDC flat ribbon cable / 2x USB-A Female / 1x RJ45
Protocol	RS-232 Serial
Speed	up to 921.6K bps
Color	Black
Compliance	TAA Compliant
Certifications	CE, FCC Approval
OS Support	Windows XP, Vista, Windows 7, Windows 8, and Windows 10, Linux and Mac OS 10.X

Physical Features

Construction	PCB Board Construction
Dimensions	3.41(L (connector to connector)x2.15(W)x.400in(H)
Weight	.18 lbs

Serial Configuration

Data Bits	7, 8
Parity	None, Odd, Even, Mark, Space
Stop Bits	1, 2
Max. Bit Rate	921,600K
RS-232 Signals	DCD, RxD, TxD, DTR, GND, DSR, RTS, CTS, RI

Buffer Size

Transmit	128 byte transmit FIFO
Receive	384 byte receive FIFO

Card Reader

Format	Micro SD
Speed	480 Mbps USB 2.0 transfer speed
Memory Card Support	Micro SD / SDHC / SDXC

Environment

Operating Temperature	0 to 70°C (-40 to 158 °F)
Operating Humidity	0 to 90% RH non condensing
Storage Temperature	-40 to 85 °C (-40 to 185 °F)

General Applications

Applications	Data Centers, Serial Equipment, Kiosk, Office, and others.
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Product URL

USB-2COM-BB
product page

<https://www.coolgear.com/product/beaglebone-black-usb-expansion-rs232-module>