

## BlueSnap DB9-M6A Wireless RS232 Dongle



The DB9-M6A wireless dongle is used to wirelessly enable RS-232 serial port devices using Bluetooth.

The DB9-M6A dongle has a DB9 male connector with pinout like that of a legacy PC RS-232 serial port or a USB to RS-232 serial port adapter. To connect the M6A to a PC type serial port (also DB9 male) to transfer data a female-female null-modem adapter is required.

BlueSnap female connector is available for special order with minimum quantity of 100 pieces.

BlueSnap is available with and without a rechargeable battery.

Battery recharge time from empty is less than 2 hours.

To power or and charge the M6A provide 5V regulated power via USB plug cable provided with the M6A, or apply regulated 5V to DB9 PIN9. The unit typically uses less than 30mA when operating.

To power on M6A press the button until the LED starts to blink, release button.

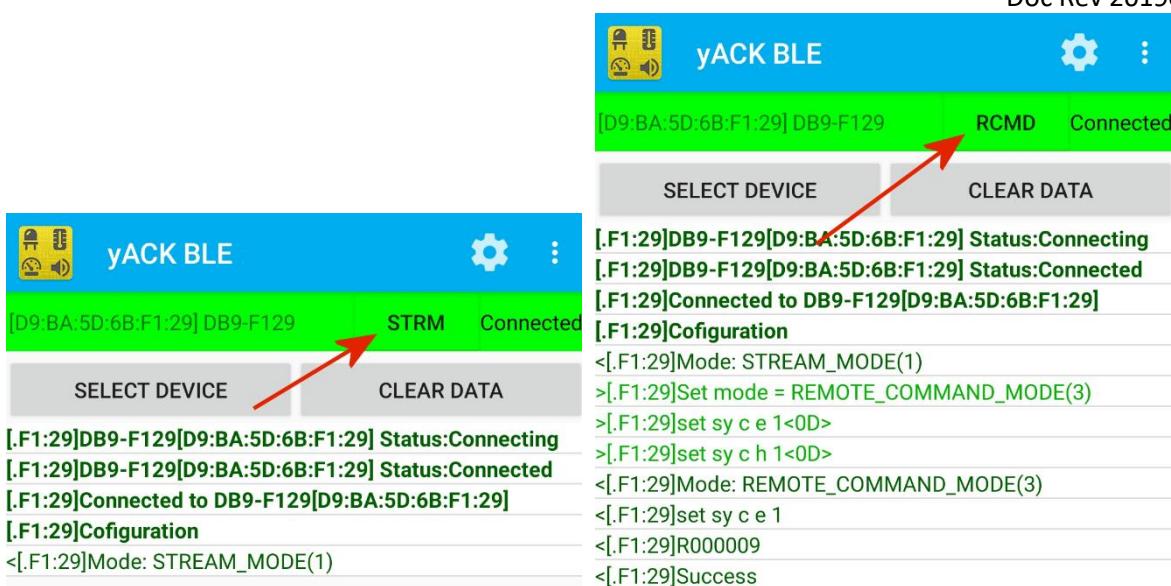
To power off M6A press the button, LED will blink a short time, blinking will stop, release the button.

DB9-M6A supports baudrates 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 (custom firmware available for more baudrates with MOQ)

The default baudrate is 115200. To change the baudrate use the yACK BLE app on Android or iOS.

Connect yACK BLE app to M6A and change to command (CMD) mode. For example on Android tap STRM button, it changes to RCMD. <https://www.serialio.com/downloads/setup-apps>





Two yACK BLE devices are connected:

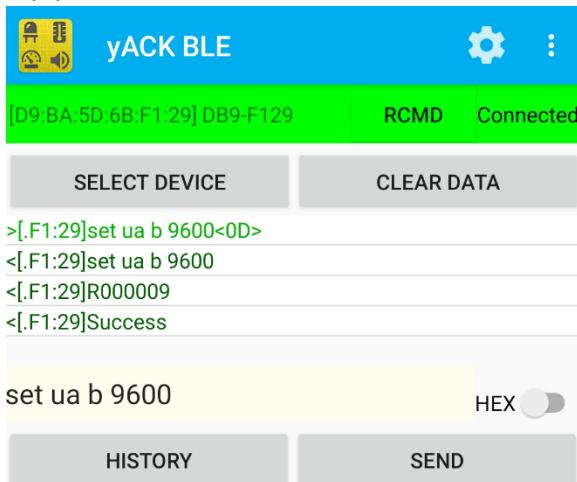
- RCMD**: Status:Connected
- STRM**: Status:Connected

Device logs:

```

[F1:29]DB9-F129[D9:BA:5D:6B:F1:29] Status:Connecting
[F1:29]DB9-F129[D9:BA:5D:6B:F1:29] Status:Connected
[F1:29]Connected to DB9-F129[D9:BA:5D:6B:F1:29]
[F1:29]Configuration
<[F1:29]Mode: STREAM_MODE(1)
>[F1:29]Set mode = REMOTE_COMMAND_MODE(3)
>[F1:29]set sy c e 1<0D>
>[F1:29]set sy c h 1<0D>
<[F1:29]Mode: REMOTE_COMMAND_MODE(3)
<[F1:29]set sy c e 1
<[F1:29]R000009
<[F1:29]Success
  
```

Use command “set ua b <rate>” to change baudrate e.g. “set ua b 9600” then tap SEND, M6A should reply with success.



Command entered:

```
>[F1:29]set ua b 9600<0D>
```

Reply:

```
<[F1:29]set ua b 9600
<[F1:29]R000009
<[F1:29]Success
```

Command entered:

set ua b 9600

Buttons:

- SELECT DEVICE
- CLEAR DATA
- HISTORY
- SEND

After baudrate set, type the command “save”, tap SEND, then power cycle the unit to use the new baudrate.

To change the 8 character wireless discovery name of the BlueSnap use the command 'set sy d n <name>', and tap Send, verify success reply.

To use discovery name that has 3-character value, and maintain the last 4 digits in the Bluetooth MAC address, use the command 'set sy d n <val>-####' e.g. 'set sy d n DB9-####', then send command Save, and power cycle.

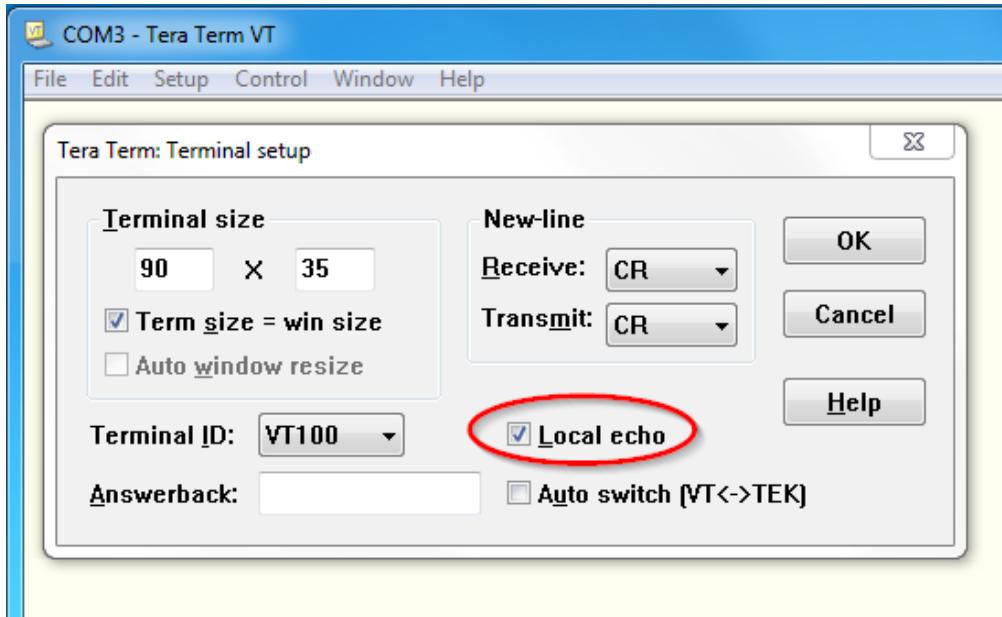
Battery version of the M6A will power off, after a few minutes with no wireless connection to a host.

To set the time for this power off feature, use command ‘set sy a t <seconds>’

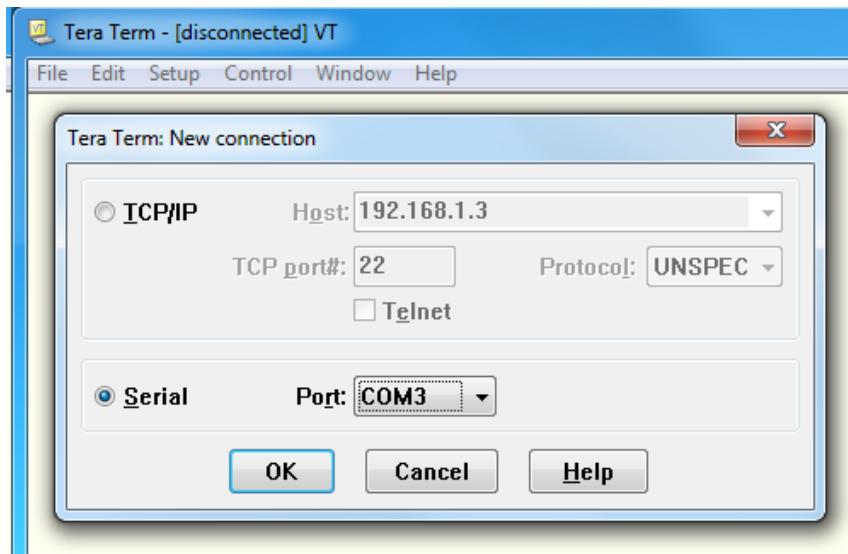
For example to have device power off after 5 minutes of no connection, use the command ‘set sy a t 3000’. To disable this power off timeout, set the seconds value to 0.

This example will show sending data wirelessly from RS-232 serial port to BlueSnap using the Tera Term app on Windows, and yACK BLE app Android. Tera Term is a free download (find reputable download source)

“Local echo” will be enabled to allow user to see typed values on Windows PC. DB9-M6A RS232 port will be connected to USB-RS232 connection to Windows PC.

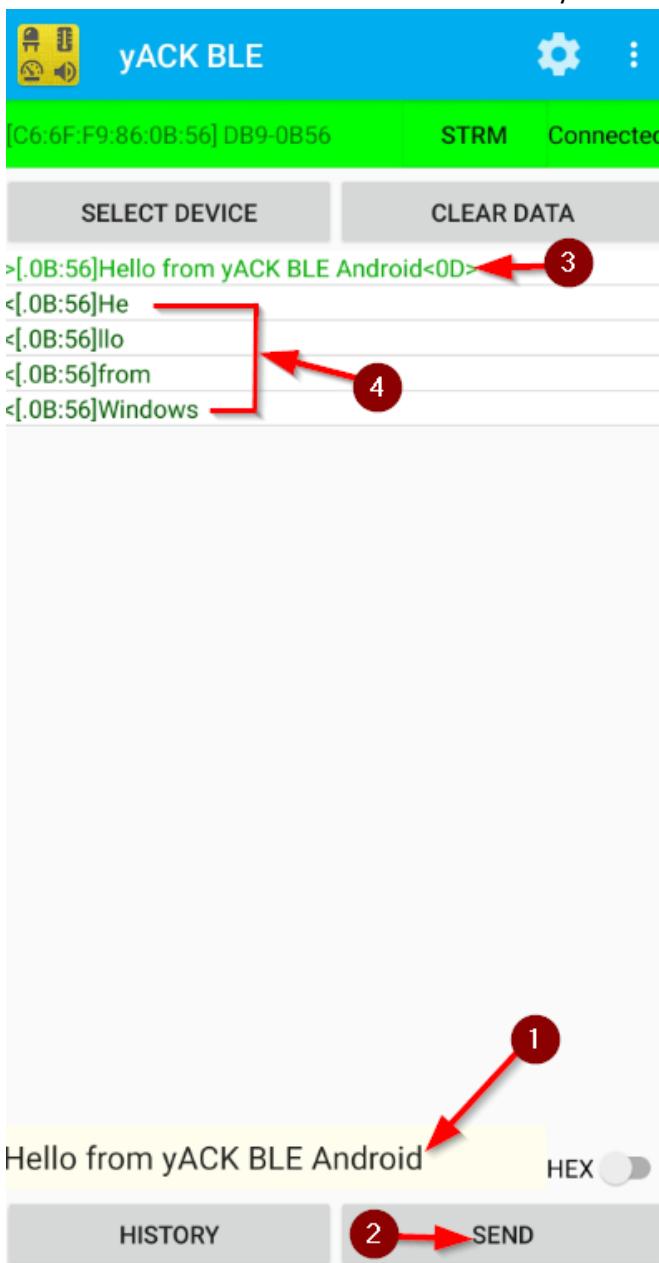


Select the COM port

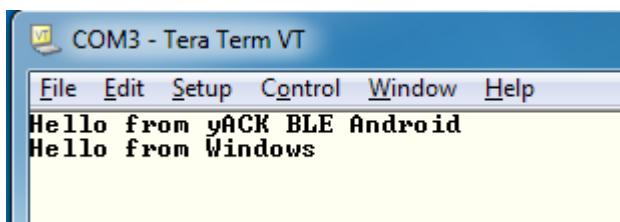


Data sent from yACK BLE will be shown on Windows PC : 1, 2, 3

Send sent from Windows PC will be shown on yACK BLE : 4



Windows PC view



For support contact Serialio.com <https://www.serialio.com/support>

FCC Warning:

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 are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.