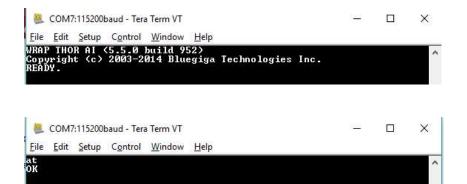
BlueGiga proto board

Wednesday, June 22, 2016 8:3

This describes testing that the BT module is communicating via blue tooth.

Using the BlueGiga proto board connected to a PC via RS232 and running Tera Term VT on the PC.

Screen clips are from the PC.



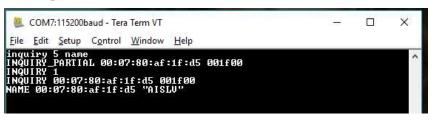
RS232 response after power on or reset

"at" typed on the PC keyboard.

The response, OK, signals that the BlueGiga module is communicating to the PC.

Note in all the screen clips the lower case is typed on the PC. The response is in caps.

Testing a "Slave" MidiBT module



"inquiry 5 name" typed into PC.

Next 4 lines is the response received from the MidiBT module running the SLAVE program. Note AISLV is the name of the module.

If not paired solid red and flashing yellow



"pair 00:07:80:af:1f:d5" is a pair request to the MidiBt module address 00:07:80:af:1f:d5.

:PAIR 00:07:80:af:1f:d5 OK" indicates a successful pairing

Flashing yellow (paired)

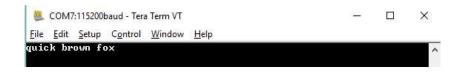


"call 00:07:80:af:1f:d5 1101 rfcomm" request a Secure Simple Pairing (SSP) to transfer digital

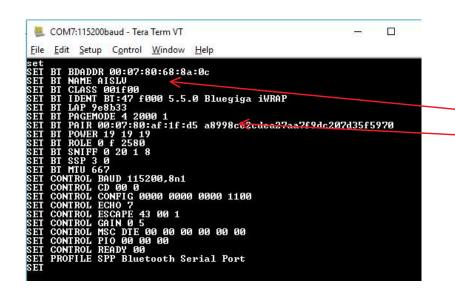
"CONNECT 0 RFCOMM 1" indicates connection

Flashing green (in SSP mode)

Install a Midi cable on the MidiBT module looping it by connecting the Midi Out to the Midi In



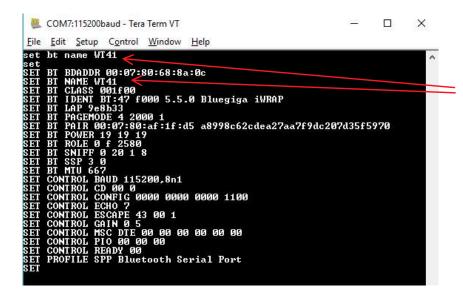
Anything typed on the PC will loop back and be displayed on



"set" requests the settings of the Bluegiga BT module

Note

- 1. that this module has been renamed to AISLV. This will let a MidiBT Master module pair with it.
- 2. This module is paired with a MidiBT Master address 00:07:80:af:1f:d5



"set bt name WT41" command renames the module to "WT41"

"set" (2nd line) command requests current settings

```
COM7:115200baud - Tera Term VT

File Edit Setup Control Window Help

set bt pair 90:07:80:68:8a:0c

SET BT BDADDR 00:07:80:68:8a:0c

SET BT NAME WT41

SET BT CLASS 001f00

SET BT IDENT BT:47 f000 5.5.0 Bluegiga iWRAP

SET BT IAP 9-8b33

SET BT PAGEMODE 4 2000 1

SET BT POWER 19 19 19

SET BT SNIFF 0 20 1 8

SET CONTROL BAUD 115200.8n1

SET CONTROL DAND 115200.8n1

SET CONTROL ECHO 7

SET CONTROL ECHO 7

SET CONTROL ECHO 7

SET CONTROL ECHO 7

SET CONTROL ESCAPE 43 00 1

SET CONTROL MSC DTE 00 00 00 00 00

SET CONTROL PIO 00 00 00

SET CONTROL READY 00

SET PROFILE SPP Bluetooth Serial Port
```

"set bt pair 00:07:80:af:1f:d5" command remove the pair

Testing a "Master" MidiBT module

```
COM7:115200baud - Tera Term VT

File Edit Setup Control Window Help

set bt name AISLU

set

SET BT BDADDR 00:07:80:68:8a:0c

SET BT NAME AISLU

SET BT CLASS 001:600

SET BT LAP 9e8b33

SET BT PAGEMODE 4 2000 1

SET BT PAGEMODE 4 2000 1

SET BT POWER 19 19 19

SET BT ROLE 0 : 2580

SET BT SNIFF 0 20 1 8

SET BT SSP 3 0

SET BT MTU 667

SET CONTROL BAUD 115200,8n1

SET CONTROL CD 00 0

SET CONTROL ECHO ?

SET CONTROL ECHO ?

SET CONTROL EGAPE 43 00 1

SET CONTROL GAIN 0 5

SET CONTROL MSC DIE 00 00 00 00 00 00

SET CONTROL PLO 00 00 00 00 00 00 00 00

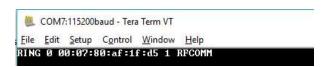
SET CONTROL PLO 00 00 00 00 00 00 00 00 00

SET CONTROL PLO 00 00 00 00 00 00 00 00 00 00

SET CONTROL PLO 00 00 00 00 00 00 00 00 SET CONTROL PLO 00 00 00 00 00 SET CONTROL PLO 00 00 00 SET CONTROL READY 00

SET PROFILE SPP Bluetooth Serial Port

SET
```



Start with both modules off (MidiBT & BlueGiga Proto)
On BlueGiga Proto

- 1. BlueGiga Proto power on and connect to PC
- 2. Type: "at" expected response: "OK" (see above)
- 3. Rename the module to AISLV and verify (set command shows that the module has been named to AISLV)

On MidiBT module

- 4. Power on the MidiBT module.
- 5. If the red LED is on solid go to step 4
- 6. If yellow LED is flashing, push the reset pairing push button.

MidiBT module now should automatically find, pair and start SSP

No feedback available during finding and pairing

Response when starting SSP