

SHIELD-WT11 Data Sheet

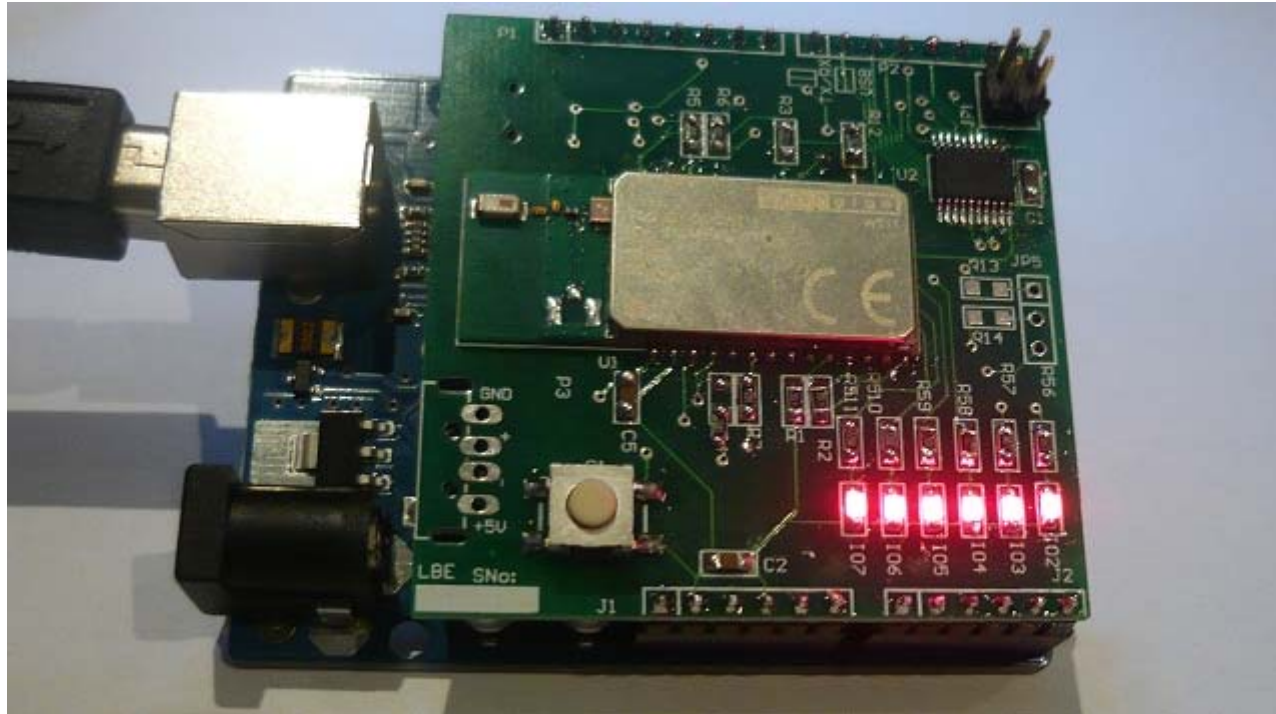


Figure 1 - USB-WT11 device

Overview

The SHIELD-WT11 is a bluetooth evaluation kit to provide education on using the Bluetooth interface.

Parameters

Parameter	Value	Nominal
Baud rate	1200 to 3.0M	115200,8,n,1

Supply	3.3V	-
Current (Idle)	5 to 25mA	16mA

Table 1 - Electrical Characteristics

Baud Rate

The baud rate may be set using the SET CONTROL BAUD command. The default baud rate is 9600,8n1 between the PC and Arduino, and 2400 between the Arduino and the Wt11 module.

Operation

Type RESET+[ENTER] or SET+[ENTER] to check the module is working.

Bluetooth Commands

Press Enter after all commands.

Command	Description
RESET	Resets the module and shows power up message including iWrap version.
SET	Displays all current parameters
INQUIRY 5	Sends out an inquiry to discover all Bluetooth devices within range, and displays MAC addresses of all devices found
INQUIRY 5 NAME	Same as above, but also displays device name such as "Nokia 6230"
CALL <MAC:ADDR> 1101 RFCOMM	Connect to another Bluetooth device using the serial port profile

Table 2 - Bluetooth Commands

Examples

User entered text is shown as ***bold italics***.

RESET [ENTER]

WRAP THOR AI (4.0.0 build 317)

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READY.

SET [ENTER]

SET BT BDADDR 00:07:80:81:4d:2b
SET BT NAME WT11-A
SET BT CLASS 001f00
SET BT IDENT BT:47 f000 4.0.0 Bluegiga iWRAP
SET BT LAP 9e8b33
SET BT PAGEMODE 4 2000 1
SET BT POWER 3 3 3
SET BT ROLE 0 f 7d00
SET BT SNIFF 0 20 1 8
SET BT MTU 667
SET CONTROL BAUD 115200,8n1
...
SET CONTROL READY 00
SET PROFILE SPP Bluetooth Serial Port
SET

INQUIRY 5 NAME [ENTER]

INQUIRY_PARTIAL 00:07:80:81:4d:2c 001f00
INQUIRY 1
INQUIRY 00:07:80:81:4d:2c 001f00
NAME 00:07:80:81:4d:2c "TEST-UNIT 0004"

CALL 00:07:80:81:4d:2c 1101 RFCOMM [ENTER]

CALL 0
CONNECT 0 RFCOMM 1