Jew Designs WT11i DEVELOPMENT KIT

DATA SHEET

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Version 1 5



VERSION HISTORY

Version	Comment
1.4	Table 2 corrected
1.5	Minor changes

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Introduction

WT11i Development Kit Contents:

- WT11i development board containing:
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2 Physical outlook

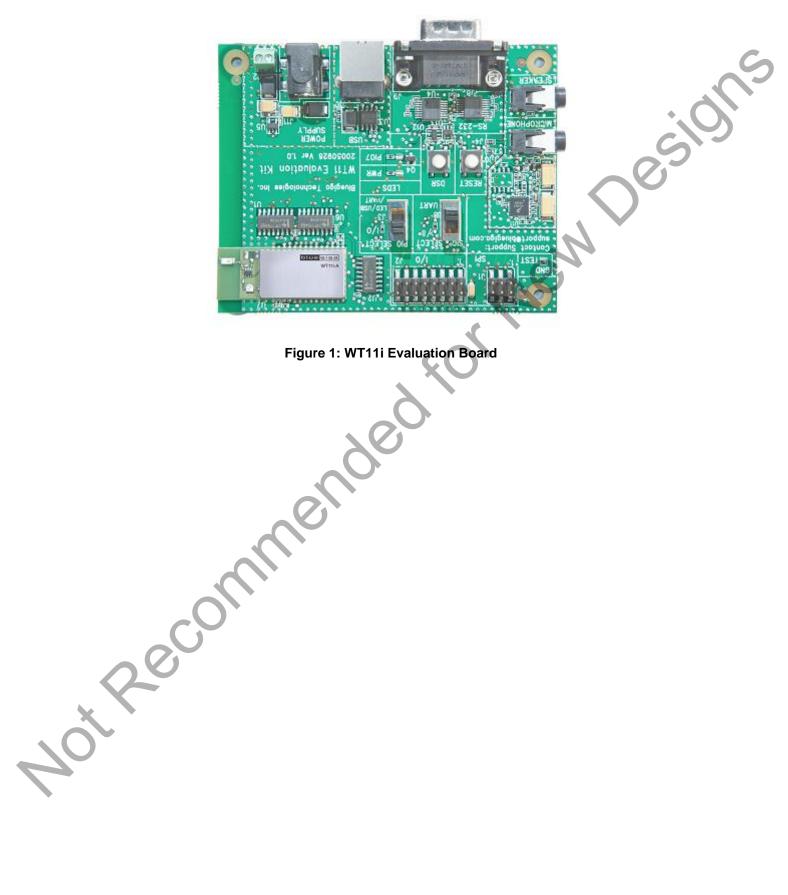


Figure 1: WT11i Evaluation Board

3 Schematics

Schematics of WT11 Evaluation Kit can be found from the CD delivered with the package or alternatively downloaded from http://www.bluegiga.com

4 Assembly

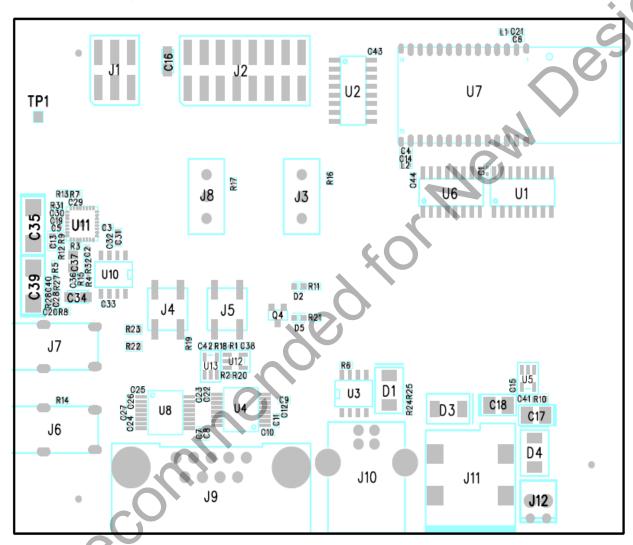


Figure 2: WT11 Evaluation Kit assembly

5 Gerber

Gerber of WT11 Evaluation Kit can be downloaded from www.bluegiga.com.

6 SPI (J1) interface

SPI interface pin configuration is show in Table 2. The physical interface is 2X3 pin header (AMP146134-2).

PIN Name:	No.:	I/O:	Description:
MISO	1	0	MISO
3.3 V	2	POWER	3.3 V power supply input
CLK	3	I	CLK
MOSI	4	I	MOSI
CSB	5	I	CSB
GND	6	GND	GND

Table 1: SPI Interface PIN description

7 GPIO (J2) interface

General purpose interface pin configuration is show in Table 2. The physical interface is 2X8 pin header (*AMP146134-7*).

PIN Name:	No.:	I/O:	Description:
RESET	1	I	Reset
3.3 V	2	POWER	Regulated power supply output (3.3 V)
PIO2	3	I/O	Programmable IO number 2
PIO3	4	I/O	Programmable IO number 3
PIO4	5	I/O	Programmable IO number 4
PIO5	6	1/0	Programmable IO number 5
PIO6	7	I/O	Programmable IO number 6
PIO7	8	VO	Programmable IO number 7
RTS	9	0	UART RTS
CTS	10	I	UART CTS
GND	11	GND	GND
GND	12	GND	GND
TxD	13	0	UART TX
RxD	14	I	UART RX
GND	15	GND	GND
+V	16	POWER	Unregulated power supply output (5-9 V)

Table 2: GPIO interface PIN description

8 PIO SELECT (J3)

This switch toggles PIO2 to PIO7 signal connections between J2 connector and LED/USB/UART interfaces.

Note: 'Top' and 'bottom' positions refer to viewing WT11 Evaluation Kit from top side as seen in Figure 2.

- Top position must be used when WT11 module is interfaced trough J2 connector.
- Bottom position is used when WT11 module is interfaced trough the DB9 RS232 connector or if USB port or if link state LED is used.

J3 Switch top position:

- PIO2 connects to pin 3 on the J2 interface
- PIO3 connects to pin 4 on the J2 interface
- PIO4 connects to pin 5 on the J2 interface
- PIO5 connects to pin 6 on the J2 interface
- PIO6 connects to pin 7 on the J2 interface
- PIO7 connects to pin 8 on the J2 interface

J3 Switch bottom position:

- PIO2 connects to USB IO1
- PIO3 connects to nDTR-UART
- PIO4 connects to nCD-UART
- PIO5 connects to nDSR-MUX
- PIO6 connects to VBUS
- PIO7 connects to blue LED on the board marked with PIO7

9 RESET (J4)

The RESET button resets the module using the reset pin on the WT11.

10 DSR (J5)

The DSR button is connected to PIO5 pin on the WT11. Thus, when you want to use the DSR signal, please refer to the iWRAP 2.1.0 manual. The use of DSR signal is described under SET CONTROL ESCAPE chapter.

11 Speaker JACK (J6)

Connect your generic PC headset's 3,5mm speaker plug here.

12 Microphone JACK (J7)

Connect your generic PC headset's 3,5mm headphone plug here.

13 SIG Select (J8)

This switch toggles nCTS and RxD signals connection between J2 connector and DB9 RS232 connector.

Note: 'Top' and 'bottom' positions refer to viewing WT11 Evaluation Kit from top side as seen in Figure 2.

- Top position must be used when external WT11 module's nCTS and RxD pins are interfaced trough J2 connector.
- Bottom position must be used when WT11 is interfaced trough the DB9 RS232 connector.

J8 Switch top position:

- nCTS connects to pin 10 on the GPIO (J2) interface
- · RxD connects to pin 14 on the GPIO (J2) interface

J8 Switch bottom position:

- nCTS connects to nCTS-UART
- RxD connects to RXD-UART

14 RS-232 (J9) DTE interface

RS-232 interface PIN configuration is shown in Table 1. The physical interface is D9-male connector (AMP747840-4).

PIN Name:	No.:	I/O:	Description:
NC	1	NC	Not connected
RxD	2	I	RxD
TxD	3	0	TxD
DTR	4	0	DTR on
GND	5	GND	Ground
NC	6	NC	Not connected
RTS	7	0 60	RTS
CTS	8	7	CTS
NC	9	NC	Not connected

Table 3: RS232 PIN configuration

15 USB (J10) interface

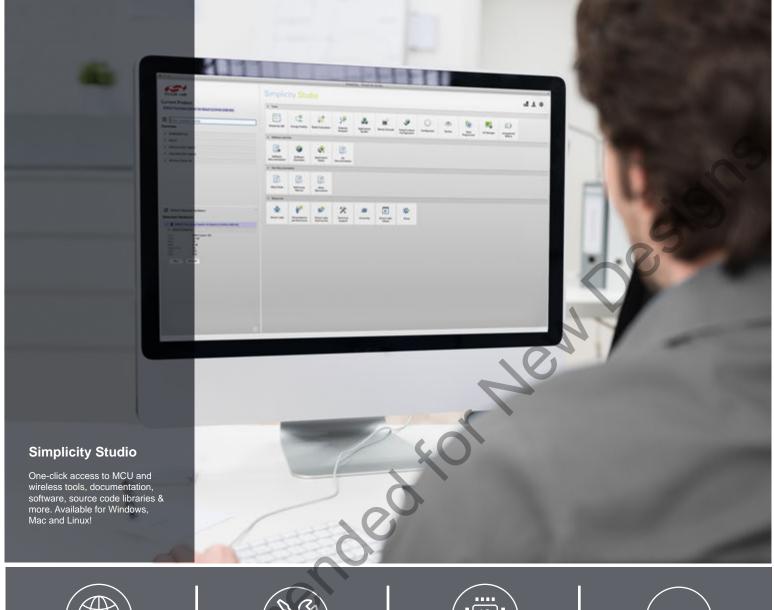
J10 connector is a standard USB B receptacle connector.

16 Power supply (J11)

This connector is used with the 5V power supply delivered with the evaluation kit. Diameter 6.0mm, inner pin diameter 2.0mm.

17 Power supply (J12)

at be 5-9V unre This connector can be used for external power supply. Power supply must be 5-9V unregulated.





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