

The Tinusaur Project

USIUARTX

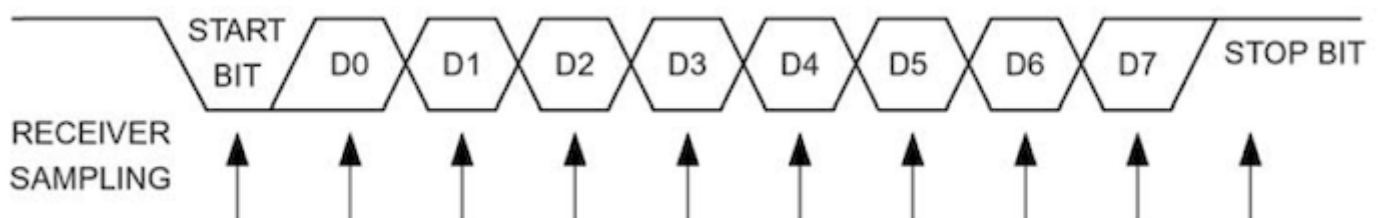
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There's no **UART** on **ATtiny85** so we had to write our own library that takes advantage on the built-in **USI** unit – the library is called **USIUARTX**.

This work is largely influenced by Atmel application note **AVR307: Half Duplex UART Using the USI Module** (<http://www.atmel.com/Images/doc4300.pdf>).

UART communication looks like this:



(https://tinusaur.files.wordpress.com/2015/10/uart_communication_cs700x130.png)

References

The source code available at <https://bitbucket.org/tinusaur/usiuartx>
(<https://bitbucket.org/tinusaur/usiuartx>).

Atmel application note **AVR307: Half Duplex UART Using the USI Module**
(<http://www.atmel.com/Images/doc4300.pdf>).

Discussion about “Using USI as a UART in the ATtiny 25/45/85”

<http://www.avrfreaks.net/forum/using-usi-uart-attiny-254585> (**<http://www.avrfreaks.net/forum/using-usi-uart-attiny-254585>**)

Discussion about “rs232 / microcontroller” (in German)

<http://www.mikrocontroller.net/topic/51347> (**<http://www.mikrocontroller.net/topic/51347>**)

Source code that solves some issues:

newer: **http://www.mikrocontroller.net/attachment/18859/USI_UART.c**

(**http://www.mikrocontroller.net/attachment/18859/USI_UART.c**)

older: **http://www.mikrocontroller.net/attachment/18831/USI_UART.c**

(**http://www.mikrocontroller.net/attachment/18831/USI_UART.c**)

Simple ATtiny USI UART: **<http://www.technoblogy.com/show?RPY>** (**<http://www.technoblogy.com/show?RPY>**)

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