1 bit start

8 bits data

1 odd parity

2 bits stop

Total = 12 bits

U1BRG = 34 corresponding to 114285.7 actual baud rates

Time required for each polling =

* a baud rate of 9600 bps for a single byte transmission with one stop bit and 8‐bit data transmission will have a 960 bps for every bit.
* We know in transmit UART data the bits are getting average out in the 7, 8, and 9 clock counts out of 16 for every bit.
* **The fastest baud rate tolerance:**

We can cut off the 8 clock counts out of 16:

= that can be cut off

is the fastest baud rate.

* **The slowest baud rate tolerance:**

We can add the 7 clock counts out of 16:

= that can be added

is the slowest baud rate.

Transmitting 16- bits data

Wait 1 ms

Receiving 16-bits data

Time = Transmitting + 1 ms + Receiving