

LTOS – Asynchronous USART Communication Example with NUCLEO-F401RE

Before start to explain this project, I strongly recommend to read document in [LedBlinkPrj_NucleoF401RE](#) folder to learn adding LTOS to your project. This project was created with [STM32CubeIDE version: 1.7.0](#)

1- Asynchronous USART Communication

UART is very famous communication type in embedded systems. But, pooling UART for waiting bytes is so dangerous for real-time projects. So, it is very important to design UART communication to don't make busy processor by sending or receiving byte(s). Thanks to DMA, we don't need to worry about this problem anymore.

