Abstract

In this paper I'm proposing a novel idea for designing and developing an embedded system which gives a solution for testing various serial communication interfaces of target board. This work reduces total system debugging time since it creates an independent platform, which helps the testing engineers to check their board before the entire completion i.e. it provides the developers an environment which facilitates them to conduct testing along with complete
system development. This is going to be a boon to the embedded test engineers by reducing the testing time to a great extend and thereby aiding industry to save a lot of design time as well as money.

**Reference**

- PIC32MX5XX/6XX/7XX Data Sheet USB, CAN and Ethernet, 32-bit Flash Microcontrollers, Microchip Technology, 2009.
- Overview and use of the PICmicro serial peripheral interface, Microchip Technology

**Index Terms**

- Computer Science
- Wireless

**Key words**

- CAN
- I2C
- SPI
- UART
- RS232
- GUI