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| **User Story / Requirement ID** | **User Story/Requirement Under Test** | |
| 01 | Serial Communication Verification | |
| ***Is it valid?*** |
| yes |
| ***If not valid, what is the new/Extra information from Marketing/Product Owner?*** | | |
|  | | |
| **Test Case ID** | **Test Case Name** | |
| 01 | · Correct sending and receiving of messages | |
| Preconditions | Open Serial Terminal in Computer  Circuit Connected Appropriately  Serial Communication Module Connected  Program Compiled and Debugged | |
| Inputs | Keyboard to Serial Terminal  Oscilloscope  Serial Communications Module | |
| **Test Case Steps** | | |
| **Step Number** | **Step description** | **Expected Result** |
| **1** | Write a single Character in terminal 10 times | Character should be sent and received in the microcontroler. Oscilloscope should write signal as expected 10 times. |
| **2** | Write a character string or array | Each character should be received by the microcontroller and processed accordingly |
| **3** | Write and send a command | The command should be excecuted. |
| **Estimated Time** | 3 hours |  |