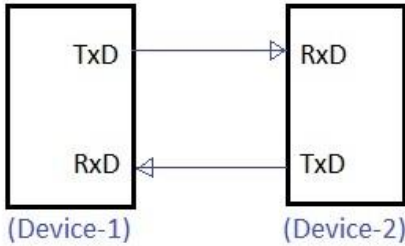
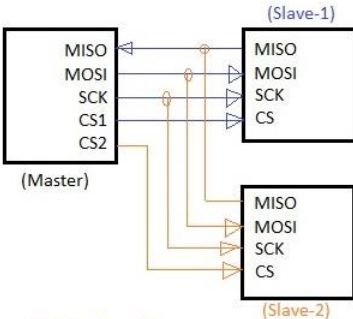
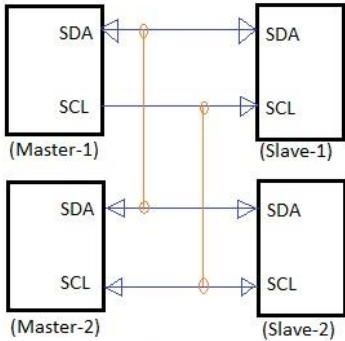


| Features              | UART                                                                                                                   | SPI                                                                                                                    | I2C                                                                                                                     |
|-----------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Nom complet           | Universal Asynchronous Receiver/Transmitter                                                                            | Serial Peripheral Interface                                                                                            | Inter-Integrated Circuit                                                                                                |
| Type de communication | Asynchrone, full duplex                                                                                                | Synchrone, full duplex                                                                                                 | Synchrone, half duplex                                                                                                  |
| Schéma                |  <p><u>UART Interface Diagram</u></p> |  <p><u>SPI Interface Diagram</u></p> |  <p><u>I2C Interface Diagram</u></p> |
| Broches               | TxD: Transmit Data<br>RxD: Receive Data                                                                                | SCLK: Serial Clock<br>MOSI: Master Output, Slave Input<br>MISO: Master Input, Slave Output<br>SS: Slave Select         | SDA: Serial Data<br>SCL: Serial Clock                                                                                   |
| Vitesse<br>Débit      | Maximum : $230 \text{ kbs}^{-1}$ to $460 \text{ kbs}^{-1}$ .                                                           | $10 \text{ Mbs}^{-1}$ à $20 \text{ Mbs}^{-1}$                                                                          | $100 \text{ kbs}^{-1}$ , $400 \text{ kbs}^{-1}$ , $3.4 \text{ Mbs}^{-1}$ .                                              |
| Distance              | Moins de 15m                                                                                                           |                                                                                                                        |                                                                                                                         |
| Topologie             | Un vers Un                                                                                                             | Un maitre vers des esclaves                                                                                            | Plusieurs maitres vers des esclaves                                                                                     |