

```
// Writes a single 8-bit value to data register of SERCOM4.
//
// Warnings          : none
// Restrictions       : none
// Algorithms         : none
// References         : none
//
// Revision History   : Initial version
//
//*****
extern void UART4_write(char data) {
    while(!(REG_SERCOM4_USART_INTFLAG & 1)) {} /* wait for data register empty */
    REG_SERCOM4_USART_DATA = data; /* send a char */
}

//*****
//
// Function Name      : "UART4_read"
// Date               : 4/8/2020
// Version            : 1.0
// Target MCU         : SAML21J18B
// Target Hardware    : none
// Author             : Brandon Cheung, Ishabul Haque
// DESCRIPTION
// Returns a single 8-bit value read from SERCOM4's data register.
//
// Warnings          : none
// Restrictions       : none
// Algorithms         : none
// References         : none
//
// Revision History   : Initial version
//
//*****
extern char UART4_read(void) {
    while(!(REG_SERCOM4_USART_INTFLAG & 4)) {} /* wait until receive complete */
    return REG_SERCOM4_USART_DATA; /* read the receive char and return it */
}
```