

|               |  |                   |                              |
|---------------|--|-------------------|------------------------------|
| Function name | MSPI_vInit   |                   |                              |
| Arguments     | Input  | *A_SPIx           | SPI peripheral to initialize |
|               |  | A_u8RelationShip  | SPI Master or Slave          |
|               |  | A_u8DataDirection | SPI Data Direction           |
|               | Output   | none              |                              |
| Return        | none   |                   |                              |
| Description   | This function is responsible for initializing the SPI module |                   |                              |

| Function name | MSPI_u16Transcieve   |           |                                     |
|---------------|--|-----------|-------------------------------------|
| Arguments     | Input  | *A_SPIx   | SPI peripheral to send data through |
|               |  | A_u16Data | Data to be sent                     |
|               | Output   | none      |                                     |
| Return        | Received data from the slave   |           |                                     |
| Description   | This function is responsible for sending data through the SPI module |           |                                     |

|               |  |           |                                     |
|---------------|--|-----------|-------------------------------------|
| Function name | MSPI_vMasterTransmit   |           |                                     |
| Arguments     | Input  | *A_SPIx   | SPI peripheral to send data through |
|               |  | A_u16Data | Data to be sent                     |
|               | Output   | none      |                                     |
| Return        | none   |           |                                     |
| Description   | This function is responsible for sending data through the SPI module |           |                                     |

|               |   |         |                                       |
|---------------|---|---------|---------------------------------------|
| Function name | MSPI_u16MasterRecieve   |         |                                       |
| Arguments     | Input   | *A_SPIx | SPI peripheral to recive data through |
|               | Output  | none    |                                       |
| Return        | Received data from the slave  |         |                                       |
| Description   | This function is responsible for reciving data through the SPI module |         |                                       |

|               |   |           |                                     |
|---------------|---|-----------|-------------------------------------|
| Function name | MSPI_vSlaveTransmit   |           |                                     |
| Arguments     | Input   | *A_SPIx   | SPI peripheral to send data through |
|               |   | A_u16Data | Data to be sent                     |
|               | Output  | none      |                                     |
| Return        | none  |           |                                     |
| Description   | This function is responsible for reciving data through the SPI module |           |                                     |

|               |  |         |  |
|---------------|--|---------|--|
| Function name | MSPI_u16SlaveRecieve   |         |  |
| Arguments     | Input  | *A_SPIx | SPI peripheral to receive data through |
|               | Output   | none    |  |
| Return        | Received data from the master  |         |  |
| Description   | This function is responsible for receiving data through the SPI module |         |  |

|               |               |  |  |
|---------------|---------------|--|--|
| Function name | MSPI_vDISABLE |  |  |
|---------------|---------------|--|--|

|             |   |                   |                              |
|-------------|---|-------------------|------------------------------|
| Arguments   | Input   | *A_SPIx           | SPI peripheral to initialize |
|             |   | A_u8RelationShip  | SPI Master or Slave          |
|             |   | A_u8DataDirection | SPI Data Direction           |
|             | Output  | none              |                              |
| Return      | none  |                   |                              |
| Description | This function is responsible for disabling the SPI module |                   |                              |

|               |   |       |                                  |
|---------------|---|-------|----------------------------------|
| Function name | MSPI1_vSetCallBack  |       |                                  |
| Arguments     | Input   | *Fptr | Pointer to the callback function |
|               | Output  | none  |                                  |
| Return        | none  |       |                                  |
| Description   | This function is responsible for setting the callback function for SPI1 |       |                                  |

|               |   |       |                                  |
|---------------|---|-------|----------------------------------|
| Function name | MSPI2_vSetCallBack  |       |                                  |
| Arguments     | Input   | *Fptr | Pointer to the callback function |
|               | Output  | none  |                                  |
| Return        | none  |       |                                  |
| Description   | This function is responsible for setting the callback function for SPI2 |       |                                  |

|               |   |       |                                  |
|---------------|---|-------|----------------------------------|
| Function name | MSPI3_vSetCallBack  |       |                                  |
| Arguments     | Input   | *Fptr | Pointer to the callback function |
|               | Output  | none  |                                  |
| Return        | none  |       |                                  |
| Description   | This function is responsible for setting the callback function for SPI3 |       |                                  |